Samsung GALAXY S 4 mini

ANDROID SMARTPHONE

User Manual
Please read this manual before operating your phone and keep it for future reference.

SAMSUNG

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Section 1: Getting Started

Understanding This User Manual

The sections of this manual generally follow the features of your device. A robust index for features begins on page 181.

Also included is important safety information beginning on page 145, that you should know before using your device.

This manual gives navigation instructions according to the default display settings. If you select other settings, navigation steps may be different.

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the device. For more information, see *"Securing Your Device"* on page 11.

Note: Instructions in this manual are based on default settings, and may vary from your device, depending on the software version on your device, and any changes to the device's Settings.

Note: Unless stated otherwise, instructions in this User Manual start with the device unlocked, at the Home screen.

All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your device and any changes to the device's Settings.

Special Text

In this manual, you'll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Note**: Presents alternative options for the current feature or menu.
- **Tip**: Provides quick or innovative methods, or useful shortcuts.
- **Important**: Points out important information about the current feature that could affect performance.
- **Warning**: Brings to your attention important information to prevent loss of data or functionality, or even prevent damage to your device.

Text Conventions

This manual provides condensed information about how to use your device. To make this possible, the following text conventions are used to represent frequently-used steps:

→ Arrows are used to represent the sequence of selecting successive options in procedures. For example:

"From the Home screen, touch **Apps** → **Settings** → **Connections** → **Wi-Fi**."

OFF/ON Many settings use an **OFF/ON** switch. Touch the **OFF/ON** switch to turn a feature or setting on or off.

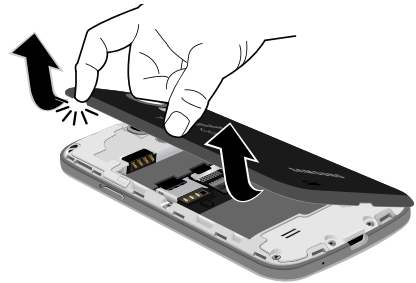
Set Up Your Device

Install the SIM (Subscriber Identity Module) card, battery, and optional memory card (not included), and then charge the battery to begin using your device.

Remove the Back Cover

The battery, SIM card, and optional memory card are installed under a removable cover on the back of the device.

- Pull up using the slot provided, while lifting the cover off the device.



Note: The battery cover is flexible. Take care to avoid bending or twisting the cover when removing and installing, to prevent damage to the cover.

Install the SIM Card

A SIM (Subscriber Identity Module) card stores your phone number and information about your wireless service.

Caution! Turn the device off before installing or removing the SIM card. Do not bend or scratch the SIM card. Take care when handling, installing, or removing the SIM card, and avoid exposing the SIM card to static electricity, water, or dirt. Keep the SIM card out of reach of small children.

- With the U.S. Cellular logo facing up, carefully insert the SIM Card into the slot, pressing gently until it locks into place.

Install a Memory Card

Your device can use an optional microSD card (not included) for additional storage of files and data.

- With the gold contacts facing down, slide the memory card into the slot, pushing gently until it locks into place.

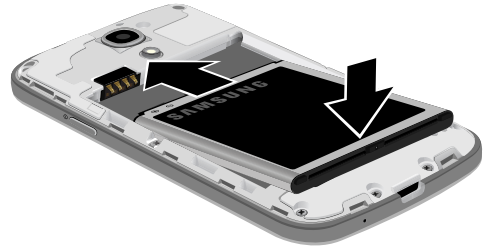
Note: For more information on memory cards, see *"Memory Card"* on page 142.

Install the Battery

Your device is powered by a rechargeable, standard Li-Ion battery. A Charging Head and USB cable are included with the device for charging the battery.

The battery comes partially charged. You must fully charge the battery before using your device for the first time. A fully discharged battery requires up to 4 hours of charge time. After the first charge, you can use the device while charging.

Warning! Use only Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.



- Insert the battery into the device, aligning the gold contacts on the battery with the gold contacts in the device.

Replace the Battery Cover

- Align the cover and press it firmly into place, making sure it snaps into place.

Charge the Battery

Your device comes with a Charging Head and USB cable for charging your device from any standard power outlet.

1. Insert the USB cable into the port.

2. Connect the USB cable to the charging head, then plug the charging head into a standard AC power outlet.
3. When charging is complete, unplug the charging head from the power outlet and remove the USB cable from the device.

Battery Indicator

The battery icon in the Status Bar shows battery power level. Before the battery becomes too low to operate, the battery icon flashes and a tone plays. If you continue using the device without charging, the device will power off.

Turn the Device On and Off

Turn the Device On

- Press and hold the **Power/Lock Key** until the device vibrates and starts up.

Turn the Device Off

1. Press and hold the **Power/Lock Key** to view the *Device options* menu.
2. Tap **Power off**.

Setup Wizard

The first time you turn your device on, the Setup Wizard will guide you through the basics of setting up your device.

Follow the prompts to choose a default language, set up accounts, choose location services, and learn more about your device.

Securing Your Device

Use your device's screen lock features to secure your device.

Note: Unless stated otherwise, instructions in this User Manual start with the device unlocked, at the Home screen.

To set a personal screen lock, use the Screen lock option under Security settings. For more information, see *"Screen Lock"* on page 109.

For other settings related to securing your device, see *"Lock Screen"* on page 109.

Lock the Device

- By default, the device locks automatically when the screen times out.

  – or –

  Press the ⏻ **Power/Lock Key**.

Tip: When the device is locked, the Emergency call feature is available on the lock screen, to allow you to make emergency calls even while the device is locked.

Unlock the Device

Unlock the device using one of the default lock screens, or use Screen lock options for increased security.

- Press the ⏻ **Power/Lock Key**, then touch and drag your finger across the screen.

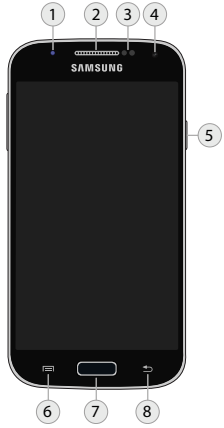
Tip: Special notification icons display for missed calls or new messages. Drag a missed call or message icon to view the message or call log.

Section 2: Understanding Your Device

Features

- LTE network with 1.7 gigahertz dual-core processor
- Android 4.2.2, Jelly Bean
- Brilliant 4.3" qHD sAMOLED display
- Touch screen
- Bluetooth enabled
- Advanced Wi-Fi® technology
- Mobile Hotspot
- USB Tethering capability
- 8 Megapixel rear camera, plus 1.9 Megapixel front-facing camera
- Supports optional memory cards of up to 64 GB capacity (not included)
- Corporate and Personal Email
- Sync and update social network applications
- Download and install apps from Google Play Store
- Full Integration of Google Mobile Services, including Gmail, YouTube, Google Maps, Google Voice Search
- Download and install apps from Samsung Apps
- Multiple Messaging Options: Text/Multimedia Messaging, Google+, and Google Hangouts.

Front



1. **LED indicator**: Displays red when charging, green when fully charged, blue when powering up, and orange when a notification has arrived.
2. **Earpiece**: Hear the caller and automated prompts during calls.
3. **Proximity and Light Sensors**: The Proximity sensor detects the presence of objects near the phone, such as when using motion settings. The Light sensor detects the ambient light level, such as when setting screen brightness when Automatic brightness.
4. **Front Camera**: Take pictures and record videos of yourself.
5. **Power/Lock Key**: Turs the phone on or off, turn the screen on or off, or lock the screen. Press and hold for a menu where you can turn the phone off or restart it, or for easy access to Airplane mode, and to Mute, Vibrate, and Sound modes.
6. **Menu Key**: Access an options menu from most of your phone's screens and apps.
7. **Home Key**: Return to the Home screen. Press and hold to open the Recently used applications window, launch Task Manager, and access Google Search. Quickly press twice to launch S Voice.
8. **Back Key**: Return to the previous screen, or close a dialog box, options menu, the Notifications panel, or on-screen keyboard.

Back

1. **Infrared Transmitter**: Used to control other devices.
2. **Microphones (top and bottom)**: Capture audio during recording, during phone calls, and video chat.
3. **3.5 mm Headset Jack**: Connects an optional headset for listening to music and convenient, hands-free conversations.
4. **Volume Key**: Adjusts the volume of your phone's sounds. From the Home screen, press to adjust master volume. During calls or playback, press to adjust volume. Press to mute the ringtone of an incoming call.
5. **USB Charger/Accessory Port**: Connects the phone charger/USB cable (included) and other optional accessories (not included).
6. **Speaker**: Plays ringtones and sounds. The speaker also lets you hear the caller's voice in speakerphone mode.
7. **Flash**: Illuminate subjects in low-light environments when taking a photo or video.
8. **Camera**: Takes pictures and records videos.

Home Screen

The Home screen is the starting point for using your device.

Status Bar (displays network status, battery power, and connection details)

Widget (app that run on the Home screen)

Shortcuts (launch apps)

Primary Shortcuts (appear on every Home screen)

Note: All screen images in this manual are simulated. Actual displays may vary, depending on the software version of your device and any changes to the device's Settings.

Extended Home Screen

The Home screen consists of the Home panel, plus panels that extend beyond the display width to provide more space for adding shortcuts, widgets and folders.

Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

Add and Remove Home Screen Panels

Your device comes with 5 default Home screen panels. You can customize the Home screen to include up to seven panels.

1. From the Home screen, touch **Menu** ➔ **Edit page**.
2. Slide your finger across the screen to scroll the panels, and use these controls to configure panels:

   Remove: Touch and hold on a panel, then drag it to **Remove**.

   Add: Touch a previously-removed panel to add it, up to the default total of seven.

   Set as Home: The panel set as Home will display when you press the **Home Key**.

Tip: You can also “pinch” the Home screen to display Edit options.

Status Bar

The Status Bar shows network and battery status and other details, including these common icons.

- **Airplane Mode Active**: All wireless communications are disabled.
- **USB Connected**: The device is connected to a computer using a USB cable.
- **Voice Call**: A voice call is in progress.
- **Speakerphone**: Speakerphone is enabled.
- **Missed Call**: Displays when there is a missed call.
- **Mute**: Voice or playback volume is muted.
- **Battery Level**: Shown fully charged.
- **Battery Charging**: Battery is charging.
- **Device Power Critical**: Battery has very little power remaining. Charge immediately.
- **GPS Location Active**: One or more GPS location services are active.

No Network: No wireless network is available.

4G LTE Connection: device is active on a 4G LTE system. The arrows are colored when data is being transferred.

Signal Strength: Current signal strength. The greater the number of bars, the stronger the signal.

Signal Strength Roaming, Open: Current signal strength, when the device is roaming. The greater the number of bars, the stronger the signal.

Signal Strength Roaming, CDMA: Current signal strength, when the device is roaming on CDMA networks. The greater the number of bars, the stronger the signal.

Wi-Fi Active: Wi-Fi is active, and connected to a Wi-Fi network. The greater the number of rays, the stronger the signal. The arrows are colored when data is being transferred.

Wi-Fi Action Needed: Action needed to connect to Wi-Fi network.

Bluetooth Active: Bluetooth is turned on.

Bluetooth Paired: Your device is paired with another Bluetooth device.

New Message: You have new message(s).

New Voicemail: You have new voicemail. A number indicates the number of new messages.

New Email Message: You have new email.

Download Successful: A file was downloaded successfully.

Upload Successful: A file was uploaded successfully.

Update Available: An update is available for an installed app.

Update Successful: An update was installed for an app.

Alarm: An alarm is set.

Driving mode: The phone is set to Driving mode.

Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active.

Vibrate: Vibrate Silent mode is active.

Music Playing: Music is playing, but the app is in the background. You can control playback from Notifications, or from Music player.

Music Paused: Music playback is paused. You can control playback from Notifications, or from Music player.

SD Card Ready: A memory card scan is underway, to prepare the card for use.

SD Card Safe to Remove: A memory card was unmounted, and it is safe to uninstall it.

SD Card Removed: A memory card was uninstalled.

Notification Panel

The Notification Panel displays information about connections, alerts, new messages, and more. It also has Quick settings-buttons which allow you to quickly access and change common system settings.

1. Touch and drag downward from the top of the screen to display the Notification panel.
2. Touch an item to open the item, or to launch the related app or feature.

Clear Notifications

1. Sweep your finger downward from the top of the screen to display Notifications.
2. To clear one notification, touch a notification and hold and drag a used one to delete.
   And to delete all, select the **Clear** button.

World Clock

While displaying the Notification Panel, touch the **time** to display a World clock. Add cities to the clock to display the time in different zones around the world.

Quick Settings

Use Quick settings at the top of the Notification Panel to control popular settings. Slide your finger right and left to see additional settings, or touch to display them all:

- **Wi-Fi**: Turn Wi-Fi on or off. See *"Wi-Fi" on page 90.*
- **GPS**: Turn Standalone GPS services on or off. See *"Location Services" on page 138.*
- **Sound**: Switch between your sound settings (Sound, Mute, and Vibrate). See *"Sound Settings" on page 115.*
- **Screen rotation**: Enable or disable screen rotation. See *"Auto-Rotate Screen" on page 113.*
- **Bluetooth**: Turn Bluetooth on or off. See *"Bluetooth" on page 93.*
- **Mobile data**: Enable access to mobile data service. See *"Mobile Networks" on page 107.*
- **Blocking mode**: Block notifications for selected features. See *"Touch Voice privacy to enable the feature." on page 125.*
- **Power saving**: Enable or disable Power saving mode. See *"Power Saving Mode" on page 127.*
- **Screen Mirroring**: Share your device's screen with another device, using an optional AllShare Cast accessory (not included). See *"Screen Mirroring" on page 109.*
- **S Beam:** S Beam uses your phone's NFC (Near Field Communication) to send, or "beam", content to other NFC and Wi-Fi Direct devices, by holding the devices close together. See *"S Beam" on page 108.*
- **NFC**: Use NFC (Near Field Communication) to share information between your phone and another NFC device by touching the devices together, typically back-to-back. See *"NFC" on page 108.*
- **Hands-free mode**: Set incoming caller ID and text messages to be read out. See *"Hands-Free Mode" on page 126.*
- **Smart stay**: The phone automatically adjusts screen timeout and rotation when it detects you are looking at the screen. See *"Smart Stay" on page 24.*
- **Sync**: When enabled, this feature synchronizes accounts and data.
- **Airplane mode**: Turn Airplane mode On or Off. See *"Airplane Mode" on page 107.*

Customizing Your Home Screen

You can customize your Home screen by doing the following:

- Creating Shortcuts
- Adding and Removing Widgets on the Home Screen
- Creating Folders
- Changing the Wallpaper
- Adding and Deleting Home Screens

Shortcuts and Widgets

You can add, reposition, or remove shortcuts and widgets from the Home screen.

- **Shortcuts**: Icons on the Home screen which launch applications.
- **Widgets**: Self-contained applications. They appear as on-screen applications.

Adding a Shortcut or Widget

You can customize the Home screen by adding shortcuts and widgets.

1. Touch and hold an empty area of the Home screen. On the pop-up menu, touch **Apps and widgets**.
   – or –
   Tap **Apps** to display the Apps screen.
2. For shortcuts, touch the **Apps** tab. For widgets, touch the **Widgets** tab.
3. Touch and hold the shortcut or widget, and then drag it to a position on the Home screen and release.

Removing a Shortcut or Widget

Shortcuts and widgets can be removed from the Home screen.

Note: Removing a shortcut does not delete the application, it simply removes the shortcut from the Home screen.

- Touch and hold the shortcut or widget until it detaches, and then drag it to **Remove** and release.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. Touch and hold an empty area of the Home screen. On the pop-up menu, touch **Folder**.
2. The folder displays on the Home screen. Touch the folder to name it.

Using Folders

- To add shortcuts to the folder, touch and hold the shortcut, and then drag it to the folder and release.
- Touch the folder to open it and access the shortcuts inside.
- To delete a folder, touch and hold the folder until it detaches, and then drag it to **Remove** and release.

Note: All shortcuts contained in the folder will also be deleted.

Wallpaper

Choose a picture to display in the background of the Home screen.

Note: You can also set Wallpaper in Settings. For more information, see *"Wallpaper"* on page 112.

1. Navigate to a Home screen panel, then touch and hold on the screen to display the **Home screen** menu.
2. Choose **Set wallpaper**, and then choose **Home screen**, **Lock screen**, or **Home and lock screens**.
3. Choose a source:
   - **Gallery**: Choose a picture stored on your device or on an optional installed memory card. Touch a picture to select it, then use the crop tool to resize the picture, if desired. Touch **Done** to set the picture as wallpaper.
   - **Live wallpapers**: Choose from pre-loaded interactive moving wallpapers. Touch a wallpaper, then touch **Set wallpaper**.
   - **Wallpapers**: Choose from pre-loaded wallpaper images. Touch a wallpaper, then touch **Set wallpaper**.
   - **Travel wallpaper**: Displays travel recommendations on the Lock screen.

Motions and Gestures

You can use gestures and motions to navigate your device's features.

Warning! Please note that a touch screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch screen may damage the tempered glass surface and void the warranty. For more information, see *"Warranty Information"* on page 168.

Gestures

Touch

Touch items to select or launch them. For example:

- Touch the onscreen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app's icon to launch the application.

Touch and Hold

Activate items by a touch and hold gesture. For example:

- Touch and hold a widget on the Home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Swipe

Swipe your finger across the screen. For example:

- Unlocking the screen
- Scrolling the Home screen or a menu
- Combine touch and hold with swipe to drag an item.

Pinch and Spread

Using two fingers, make a pinch or spread motion on the screen. For example:

- Pinch in to zoom in on pictures or screens.
- Spread out your fingers to zoom out on pictures or screens.

Palm

- Mute or pause sounds by placing your palm over the screen.

Motion

Your phone recognizes motion, to allow you to navigate and access features by moving the phone in specific gestures.

To use gestures, enable the Motion settings. For more information, see *"Motions and Gestures"* on page 134.

Pick Up

Lift the phone to perform an action.

- **Direct call**: Pick up the phone and raise it to your ear to call the contact displayed on the screen.
- **Smart alert**: The phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.

Tilt

Touch and hold the phone with your thumbs on the screen, then tilt the phone forward and back.

- **Zoom**: Tilt the phone forward and back to zoom in or out.

Pan

Touch and hold on the screen, then move the phone in a side-to-side motion.

- **Move an icon**: Pan the phone to move a highlighted icon to a new location on the Home screen.
- **Browse an image**: Pan the phone to when viewing an image to move focus around in the image.

Turn Over

Turn the phone screen-down on a flat surface.

- **Mute/pause**: Turn the phone over to mute incoming calls or pause music playback.

Palm Motion

You can control certain features on your phone by touching the screen with your hand.

- **Mute/pause**: Mute or pause sounds by covering the screen with your palm.

Smart Stay

Smart stay is a Smart screen features use the front camera to detect when you are facing the screen. Some factors that may affect the ability of the front camera to detect your face are:

- When the phone is not docked or held upright, for example when placed on a table.
- When the front camera cannot detect your face and eyes.
- When the front camera is being used for the current application.
- When the source of light is behind you, or when using the phone in the dark.

Smart stay allows your phone to automatically adjust the screen timeout when it detects you are looking at the screen.

Configure Smart Stay

For more information, refer to *"Smart Screen"* on page 135.

Voice Control

Use voice commands to control and interact with the phone:

- **Incoming calls**: Say "Answer" or "Reject" to answer or reject a call. When you answer a call, the speaker automatically turns on for hands-free conversation.
- **Alarm**: Say "Stop" or "Snooze" to stop or snooze an alarm.
- **Camera**: Say "Smile", "Cheese", "Capture", or "Shoot" to take pictures.
- **Music**: Say "Next", "Previous", "Play", "Pause", "Volume Up", or "Volume Down" to control the music player.

Entering Text

Your device uses a virtual QWERTY keyboard for text entry. Use the keyboard to enter letters, punctuation, numbers, and other characters into text entry fields or applications. Access the keyboard by touching any text entry field.

You can also use voice input to speak your inputs.

The virtual QWERTY keyboard displays at the bottom of the screen. By default, when you rotate the device, the screen orientation updates to display the keyboard at the bottom of the screen.

Choose a Text Input

Your phone offers three text input methods:

- **Google voice typing** allows you to speak your entries.
- **Samsung keyboard** allows you to enter text by touching keys on a virtual QWERTY keyboard. Samsung keyboard includes optional predictive text, which matches your key touches to common words so you can select a word to insert it into your text.
- **Swype** lets you enter words by swiping across the virtual QWERTY keyboard. Instead of tapping each key, use your finger to trace over each letter of a word. You can also tap letters to enter words.

Select a Default Text Input Method

You can select a default Text Input Method from Settings, or choose on at any time while entering text.

From Settings

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device** tab ➔ **Language and input**.
2. Touch **Default** to select Samsung keyboard or Swype.

While Entering Text

1. From a screen where you can enter text, drag down from the top of the screen to open the Notifications panel.
2. Tap **Select input method**, and then choose a text entry method.

Using Samsung Keyboard

The Samsung keyboard is a custom virtual QWERTY keyboard, featuring optional predictive text. Input characters by tapping the on-screen keys with your finger, or use speech recognition.

You can enable predictive text, to have the Samsung keyboard match your key touches to common words and displays them. Select a word from the display to insert it into your text.

Configure Samsung Keyboard

Configure the Samsung keyboard to your preferences.

- For more information, see *"Samsung Keyboard"* on page 131.
- While entering text, touch and hold , then select from the pop-up menu.

Entering Upper and Lower Case Letters

The default case is lower case (abc). Enter upper and lower case alphabet letters by touching the Shift key to toggle the case, before touching the letter key(s).

- Touch once to switch from abc to Abc mode
- Touch and hold to switch to ABC mode

Entering Symbols and Numbers

To enter common symbols, touch 123 Sym to switch to symbol mode, then touch the corresponding key.

To enter less-common symbols, touch 123 Sym ➔ 1/3, then touch the corresponding key.

To enter numbers, touch 123 Sym, then touch the number keys.

Using Google Voice Typing from the Samsung Keyboard

When you enable the Voice input setting for Samsung keyboard, you can access Google Voice Typing from the Samsung keyboard.

For more information about enabling Voice input, see *"Samsung Keyboard"* on page 131.

- Touch , then speak your input.

Using Predictive Text

When using Predictive text, you can have next-letter prediction and regional error correction, which compensates for pressing the wrong keys on the QWERTY keyboard.

- While entering characters, potential word matches display in the Predictive text area above the keyboard. Touch a word to insert it into your text.

Using Google Voice Typing

Use your voice to enter text using the Google Voice typing feature.

1. While entering text, touch and drag downward from the top of the screen to display Notifications, then touch **Select input method** → **Google voice typing**.
2. At the **Speak now** prompt, speak your text. As you speak, the text displays in the text field.

Using Swype

Swype is a new way to enter text on touch screens. Instead of touching each key individually, use your finger to trace over the letters of a word. For each word, place your finger on the first letter and glide to the subsequent letters, lifting on the last letter.

- While entering text, touch and drag downward from the top of the screen to display Notifications, then touch **Select input method** → **Swype**.

Swype Help

While entering text, you can get information about Swype.

- Touch and hold **Swype** to access Settings, for the **Help** tutorial.

Configure Swype

Configure Swype options in the Language and input settings.

- While entering text, touch and hold **Swype**.
- For more information about Swype settings, see *"Swype"* on page 132.

Using the Numeric Keyboard

Switch to a Numeric Keyboard, to quickly enter numbers and mathematical operators.

- Touch 123 +!=.

Entering Symbols and Numbers

Using the Swype Keyboard:

- Touch and hold on a key to enter the character at the top of the key.
- Touch and hold on a key until a menu of all characters available on that key appears, then touch a character to enter it.
- Touch 123 +!= to switch to Symbol mode, then touch a key.

The Editing Keyboard

The Editing Keyboard provides a quick way to move the cursor and highlight text. If the application in which you are working supports editing, you can cut, copy or paste highlighted text.

- Swype from **Swype** to 123.

Using Swype Voice Input

Enter text by speaking. Swype recognizes your speech and enters text for you.

- Touch **Voice Input**. At the prompt, speak the text you want to enter.

Section 3: Contacts and Accounts

Accounts

Your device provides the ability to synchronize information, from a variety of accounts, including Email, Facebook, Google, and your Samsung Account. Depending on the account, you can choose to synchronize your calendar, contacts, and other types of content.

Contacts from your accounts appear in your device's Contacts.

With synchronization, you can ensure that information on your device is updated with any information that changes in your accounts.

Your Google Account

Your new device uses your Google account to fully utilize its Android features, including Gmail, Hangouts, and the Google Play Store. To use these features, sign in to your existing Google account, or create a new Google account.

Your Samsung Account

Create a Samsung Account for access to Samsung apps on your device, including Samsung Apps, Samsung Hub, and Samsung Link Play.

Set Up Your Accounts

Set up and manage your accounts.

Add an Account

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Accounts** tab ➔ **Add account**.
2. Select an account provider, then follow the prompts to enter your credentials and sign in.
3. The device communicates with the provider's server to set up your account on the device.

Manage Accounts

Note: Account settings and options may vary due to account type and service provider. Not all settings are available for all accounts. See your account service provider for more information.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Accounts** tab ➔ (*account type*).
2. Touch **Sync all** to synchronize all accounts listed. Touch **Cancel sync** to stop the synchronization.
3. Touch **Setttings** to configure general options for this account type.
4. Touch an individual account for options:
   - Touch **Sync now** to synchronize all data for the selected account.

     – or –

     Touch the account data to synchronize, such as, Calendar, Contacts, and so on.
   - Touch **Remove account** to remove the account and delete all of its messages, contacts, and other data.
5. For Google accounts, touch one of the items listed under Privacy to view various settings for that item.

   – or –

   For Samsung accounts, touch **Account settings** to manage Samsung account settings or **Device backup** to set Samsung account back up and restore options.

   – or –

   For Email accounts, touch **Settings** to manage various settings for that account.

Contacts

Use Contacts to store information for your friends, family and colleagues, making contacting them easy.

Access Contacts

- From the Home screen, touch **Contacts**.

  – or –

  From the Home screen, touch **Phone** ➔ Contacts.

Contact Tips

- Swipe your finger left-to-right across a contact to make a call to the contact.
- Swipe right-to-left across a contact to create a message addressed to the contact.
- To quickly move to a specific section in your contact list, touch a letter on the right side of the list to go directly to that letter in the alphabetical list.

Create a Contact

1. From the Home screen, touch **Contacts** ➔ Contacts ➔ **Create contact**.
2. Touch **Device** to store the contact on your phone, or touch an account to store the contact.
3. Touch each field to enter information. To add an additional entry, touch ⊕. To delete an entry, touch ⊖.
   - Touch the **Photo** icon and assign a picture to the Contact:
     - **Image**: Choose a picture from Gallery.
     - **Pictures by people**: Choose pictures by tags.
     - **Take picture**: Take a new picture.
     - **S Memo**: Choose an image from S Memo.
   - Touch the **Name** field and use the on-screen keyboard to enter the full name. Touch ⌄ next to the Name field to display additional name fields.
   - Touch the **Phone** field, and then enter a phone number. Touch and then choose a label for the number.
   - Touch the **Email** field, and then enter an email address. Touch and then choose a label for the number.
   - Touch **Groups** to assign the contact to a group.

- Touch **Ringtone** to choose a ringtone to play for calls from the contact.
- Touch **Message alert** to choose a ringtone to play for new messages from the contact.
- Touch **Vibration pattern** to choose a vibration to play for new calls or messages from the contact.
- Touch **Add another field** to add additional fields for the contact.

4. Touch **Save** to save the new contact.

Tip: While entering a phone number, you can add waits or pauses. Enter the number up to the pause or wait, then touch Sym. Touch Pause(,) to add a 2-second pause, touch Wait(;) to add a wait. Touch 123 to enter more numbers.

Create Contacts from Recent Calls

Use a phone number from a recent call to create a new contact or update an existing contact.

For more information, see *"Create or Update Contacts Using Recent Calls"* on page 45.

Create Contacts from the Phone Keypad

Create a new contact by enter a phone number with the phone keypad.

1. From the Home screen, touch **Phone**.
2. Touch the digits of the phone number on the keypad.
3. Touch **Menu** ➔ **Add to contacts** ➔ **Create contact**.
4. Continue entering contact information.

Update a Contact

Make changes to update an existing contact.

1. From the Home screen, touch **Contacts** ➔ .
2. Touch a contact to view its information, then touch **Edit**.

   – or –

   Touch and hold a contact, then select **Edit** from the menu.
3. Update contact information.

Update Contacts from Recent Calls

Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, see *"Create or Update Contacts Using Recent Calls"* on page 45.

Update Contacts from the Phone Keypad

Enter a phone number with the Phone Keypad, then save it.

1. From the Home screen, touch **Phone**.
2. Touch the digits of the phone number on the **Keypad**.
3. Touch **Add to contacts**, then select **Update existing** from the pop-up menu.
4. Select a contact to update.

Delete Contacts

1. From the Home screen, touch **Contacts** ➔ .
2. Touch **Menu** ➔ **Delete**.
3. Touch contacts to mark them for deletion, or touch **Select all**.
4. Touch **Delete**.

Manage Contacts

Choose Contacts to Display

1. From the Home screen, touch **Contacts** → **Contacts**.
2. Touch **Menu** → **Contacts to display**:
   - **All contacts** to show all contacts.
   - **Device**: Display only contacts stored on your device.
   - **SIM**: Display only contacts saved to the SIM card.
   - **[Account]**: Display contacts from selected accounts.
   - **Customized list** : Select contacts to display.

Contacts Options

1. From the Home screen, touch **Contacts** → **Contacts**.
2. Touch **Menu** for options:
   - **Delete**: Delete contacts.
   - **Import/Export**: Import or export the selected contact information from/to a specified location.
   - **Share namecard via**: Share contact(s) with others using Bluetooth, ChatON, Email, Gmail, Messaging, or Wi-Fi Direct.
   - **Merge accounts**: Combine contacts with a Google or Samsung Account.
   - **Accounts**: Display accounts set up on your phone.
   - **Speed dial setting**: Assign a speed dial numbers to contacts.
   - **Send message/email**: Create a new text message or email to selected contacts.
   - **Contacts to display**: Choose contacts to display from your phone, accounts set up on your phone, or other sources.
   - **Settings**: Access settings for Contacts.
     - **Only contacts with phones**: Only display contacts that have phone numbers.
     - **List by**: Sort contacts by first or last name.
     - **Display contcts by**: List contacts by first name first or last name first.
     - **Contacts sharing settings**: Choose whether to send all namecards at once or individually.
   - **Help**: Get information about how to use Contacts.

Individual Contact Options

1. From the Home screen, touch **Contacts** ➔ .
2. Touch a contact to display it, then touch **Menu**:
   - **History**: View calls and messages to and from this contact.
   - **Edit**: Modify contact information.
   - **Delete**: Erase the contact record.
   - **Link contact/Separate contact**: Manage multiple contacts as one. For information, see *"Linking Contacts"* on page 36.
   - **Mark as default**: Set a default phone number or other field (such as IM or email address). Defaults are the contact method used when creating a message or calling a contact. You can also set a default by touching and holding on a contact field.
   - **Share namecard via**: Send the namecard. For information, see *"Share Contact Information"* on page 36.
   - **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact form the reject list, touch and hold on the contact in the main contacts screen, then choose **Remove from reject list**.
   - **Add shortcut to home**: Places this contact as a shortcut on the Home screen.

My Local Profile

My local profile is your own contact record, listed under ME at the beginning of the Contacts list.

Create My Local Profile

1. From the Home screen, touch **Contacts** ➔ .
2. Touch **Set up profile**, then enter your information in the contact fields.

Send My Local Profile to Others

You can your contact record as a vCard via Bluetooth, as an attachment via ChatON, Email, Gmail, or Messaging, or via Wi-Fi Direct.

1. From the Home screen, touch **Contacts** ➔ .
2. Touch your profile to display your contact information.
3. Touch **Menu**, then touch **Share namecard via**.
4. Choose a sending method, then follow the prompts to send the namecard.

Linking Contacts

When you have contacts from various sources (Gmail, phone, Facebook, etc.), you may have multiple similar entries for a single contact. Your phone's Contacts application lets you link multiple entries into a single contact.

Linking also helps you keep your contacts updated, because any changes to information in the respective accounts is automatically updated the next time you synchronize with the account.

Link Contacts

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch and hold on a contact, then select **Link contact**.
3. Touch another contact to link to the displayed contact.

Separate Contacts

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch under the Connection heading, and then touch next to a contact to unlink it from the displayed contact.

Share Contact Information

You can send a contact namecard as a vCard via Bluetooth, as an attachment via ChatON, Email, Gmail, or Messaging, or via Wi-Fi Direct.

Important! Not all Bluetooth devices will accept contacts, and not all devices support transfers of multiple contacts. Check the target device's documentation.

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch **Menu** ➔ **Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all**.
4. Touch **Done**. At the prompt, choose a sending method, then follow the prompts to send the namecard.

Favorites

Mark contacts with a star to identify them as Favorites.

Favorites display on the Favorites tab on the Phone app and Contacts app for quick dialing or messaging.

Access Favorites

- From the Home screen, touch **Contacts** ➔ **Favorites**.

  – or –

  From the Home screen, touch **Phone** ➔ **Favorites**.

Add a Contact to Favorites

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch and hold on a contact, then select **Add to favorites** from the pop-up menu.

   – or –

   Touch a contact to display it, then touch ☆ at the top of the screen.

Remove a Contact from Favorites

1. From the Home screen, touch **Contacts** ➔ **Favorites**.
2. Touch and hold on a contact, then select **Remove from favorites** from the pop-up menu.

   – or –

   Touch a contact to display it, then touch ★ at the top of the screen.

Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members. Your device comes with pre-loaded groups, and you can create new groups.

- From the Home screen, touch **Contacts** ➔ **Groups**.

Create a New Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch **Menu** ➔ **Create**, then enter information:
   - Touch **Group name** to enter a Group Name.
   - Touch **Group ringtone** to choose a ringtone for calls from group members.
   - Touch **Message alert** to choose a ringtone to play as a message alert from group members.
   - Touch **Vibration pattern** to choose a vibration pattern for calls or messages from group members.
   - Touch **Add member** to select members from Contacts.
3. Touch **Save** to save the new group.

Add Contacts to a Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch a **Group** to display it, then touch **Add member**.
3. Touch contacts to mark them for addition to the group, or touch **Select all**.
4. Touch **Done** to add the selected contacts.

Remove Contacts from a Group

1. From the Home screen, touch **Contacts** ➔ **Groups**.
2. Touch a **Group** to display it.
3. Touch **Menu**, then touch **Remove member**.
4. Touch contacts to mark them for removal to the group, or touch **Select all**.
5. Touch **Done** to remove the selected contacts.

Send an Email or Message to Group Members

Create a new text or email message, addressed to the group's members.

1. From the Home screen, touch **Contacts** → **Groups**.
2. Touch a **Group** to display it.
3. Touch **Menu**, then touch **Send message** or **Send email**.
4. Touch contacts to mark them as recipients for the new message or email, or touch **Select all**.
5. Touch **Done**. The new message opens, with the marked contacts as recipients. Continue creating the message.

Edit a Group

1. From the Home screen, touch **Contacts** → **Groups**.
2. Touch a Group to display it.
3. Touch **Menu** → **Edit group**, then update information for the group.

Delete a Group

1. From the Home screen, touch **Contacts** → **Groups**.
2. Touch **Menu**, then touch **Delete groups**.
3. Touch groups to tag them for deletion, or touch **Select all**. (You cannot delete pre-loaded groups.)
4. Touch **Delete**, then choose **Group only** or **Group and group members**.

Import and Export Contacts

You can import/export your contacts from/to USB storage (your device's memory) or an installed memory card. Contacts are imported/exported as vCards.

1. From the Home screen, touch **Contacts** → **Contacts**.
2. Touch **Menu**, then touch **Import/Export**.
3. Select an option, then follow the prompts to complete the operation:
   - **Import from USB storage**: Copy contacts that are saved in device memory.
   - **Export to USB storage**: Copy contacts to device memory.
   - **Import from SD card**: Imports contacts from the SD card.
   - **Export to SD card**: Exports contacts to the SD card.

Speed Dials

Speed dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

For more information about calling using speed dials, see *"Making Calls Using Speed Dials"* on page 41

Note: Speed dial 1 is reserved for Voicemail.

Assign Speed Dials

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch **Menu**, then touch **Speed dial setting**.
3. A list of speed dials displays. Touch a **Not assigned** speed dial field, then touch a contact to assign the contact to the speed dial location.

Remove or Reassign a Speed Dial

1. From the Home screen, touch **Contacts** ➔ **Contacts**.
2. Touch **Menu**, then touch **Speed dial setting**.
3. Touch **Menu**, then touch an option:
   - **Change order**: Touch an assigned speed dial, then touch a new speed dial location to change the order.
   - **Remove**: Touch a speed dial to remove it.

Making Calls

Your device offers multiple ways to make calls:

- Use the touch screen **Phone Keypad** to enter the phone number or speed dial.
- Call a contact from **Contacts**.
- Call a contact from **Favorites**.
- Return a call, or call a recent caller, from **Recent** calls.
- Voice dial using **S Voice**.

Making Calls Using the Phone Keypad

1. From the Home screen, touch **Phone**.
2. Touch the digits of the telephone number on the **Keypad**.
3. Touch to place the call.

Making Calls Using Speed Dials

Speed Dials are 1-, 2-, or 3-digit shortcuts (1 to 100) you assign to contacts, to allow you to quickly call the contact.

For more information about setting speed dials, see *"Speed Dials"* on page 40.

1. From the Home screen, touch **Phone**.
2. Touch the digits of the speed dial number on the **Keypad**, holding the last digit until the number dials.

Making Calls from Contacts

A contact is an entry that you have created to store the name, numbers, and other information for people or groups of interest.

For more information, see *"Contacts"* on page 31.

1. From the Home screen, touch **Contacts**.
2. Find the contact and touch it to open the Contact entry.
3. Touch a contact, then touch to dial the number.

Making Calls Using S Voice

Place a call by speaking the name or number.

1. From the Home screen, touch **Phone** ➔ **S Voice**.
2. Follow the prompts to speak a command. You can say commands such as:
   - **Call <Name device>**: Ex: “Call Charlie mobile” or “Call Joe work”. Call an entry in the Contact list.
   - **Dial <Phone number>**: Ex: “Dial 555-123-1234”. Call a spoken phone number.
   - **Redial**: Redials the last number called.

Tip: You can launch S Voice from most unlocked screens by pressing the **Home Key** twice. Launch S Voice, then touch **Menu** ➔ **Settings** ➔ **Open via the home key**.

Making Calls Using Favorites

Favorites are contacts that you designate as favorites by starring them. For more information about creating favorites, see *“Favorites”* on page 37.

1. From the Home screen, touch **Phone**.
2. Touch **Favorites** to display favorites.
3. Find the contact to call and touch to dial the number.

Making Calls from Recent Calls

Return a call, or call a number from a recent call stored in Recent calls.

For more information, see *“Recent Calls”* on page 44.

Multi-Party Calling

Use multi-party call features to set up a call between multiple callers, such as for a conference call.

1. Establish the first call by answering an incoming call or making a call.
2. Touch Add call. The first call is placed on hold.
3. Make the second call by entering the phone number, then touch .
4. Touch Merge to merge the calls into one conference call.
5. Touch End call to end the call.

Answering Calls

You can answer incoming calls when the device is locked or unlocked.

- Touch and drag the **Answer** icon toward the middle of the screen.

Tip: To silence the ringtone for an incoming call, press the **Volume Key**.

Send Calls to Voicemail

When your device alerts you to an incoming call, you can reject the call and access voicemail, or reject the call and send a message to the caller.

Reject a Call

- Touch and drag the **Reject** icon toward the middle of the screen.

Reject a Call with a Message

- Touch and drag **Reject call with message** toward the middle of the screen, then select an existing message, or **Create new message**.

Note: For more information about creating reject messages, see *"Set Up Call Rejection Messages"* on page 119.

Answer Call-Waiting Calls

When you receive a call while on a call:

- Touch and drag the **Answer** icon to answer the incoming call. The original call is placed on hold, and remains on hold until you end the second call, or swap calls back to the original call.
- Touch **Swap** to place a call on hold and return to the original call.

Options During a Call

While in a call, you can use these features:

- **Add call**: Display the Dialer to set up a multi-party call.
- **Keypad**: Display a keypad to enter numbers.
- **End call**: End the phone call.
- **Speaker**: Enable or disable speakerphone.
- **Mute**: Mute or unmute your voice on the call.
- **Headset**: Switch the call's audio to a Bluetooth headset (device and headset must already be paired; for more information see *"Pair with a Bluetooth Device"* on page 93).
- Touch **Menu** for options:
  - **Contacts**: Launch Contacts.
  - **Memo**: Launch S Memo.
  - **Message**: Launch Messaging.

End a Call

- To end a call, touch .

Recent Calls

When you place, answer, or miss a call, a record of the call is saved in Recent calls.

Making Calls Using Recent Calls

1. From the Home screen, touch **Phone**.
2. Touch **Recent** to display recent calls.
3. Swipe your finger from left to right across the call to redial.

   – or –

   Touch a call, then touch to dial the number.

Sending Messages Using Recent Calls

1. From the Home screen, touch **Phone** → .
2. Swipe your finger from right to left across the call.

   – or –

   Touch a call, then touch to create a message to the number.

Create or Update Contacts Using Recent Calls

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. Touch and hold on a call, then select **Add to contacts** from the pop-up menu.
3. Choose **Create contact** or **Update existing**.
4. Continue entering contact information. For more information, see *"Contacts"* on page 31.

Managing Recent Calls

Delete Records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu**, then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check indicates marked records.
4. Touch **Delete** to delete marked records.

Filtering Records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu** ➔ **View**.
3. Select a filter type, from **All calls and messages**, **All calls**, **Missed calls**, **Dialed calls**, **Received calls**, **Rejected calls**, **All messages**, **Sent messages**, and **Received messages**.

View Call Durations

View the length of the Last call, all Dialed calls, all Received calls, or All calls.

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing calls, touch **Menu**, then touch **Call duration**.

Voice Mail

All unanswered calls to your device are sent to voicemail, even if your device is turned off, so you'll want to set up your voicemail and personal greeting as soon as you activate your device.

For more information, see *"Voicemail"* on page 123.

Call Settings

For information on configuring call settings, see *"Call Settings"* on page 119.

Section 5: Messaging

This section describes how to send and receive different types of messages. It also includes the features and functionality associated with messaging.

Types of Messages

Your phone provides the following message types:

- Text Messages
- Multimedia (Picture, Video, and Audio) Messages
- Email and Gmail Messages
- Google+ Messages
- Google Hangouts

The Short Message Service (SMS) lets you send and receive text messages to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's message service.

The Multimedia Messaging Service (MMS) lets you send and receive multimedia messages (such as picture, video, and audio messages) to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's multimedia message service.

Important! When creating a message, adding an image, a sound file, or a video clip to a text message changes the message from a text message to a multimedia message.

New Messages Notification

Depending on your notification settings, the phone will play a ringtone, vibrate, or display the message briefly in the Status bar when you receive a new message. To change the notification for new messages, see *"Messaging Settings"* on page 51 for details.

A new message icon also appears in the notifications area of the Status bar to notify you of a new message. The Messaging application icon also displays the number of new messages.

To open the message, touch and hold the Status bar, and then slide the Status Bar down to open the Notifications panel. Touch the new message to open and read it. For information on reading and replying to messages see *"Managing Messages"* on page 49.

Create and Send Messages

Quickly compose and sent text and multimedia messages on your phone.

1. From the Home screen, touch **Messaging** ➔ **Compose**.
2. Touch the **Enter recipient** field to manually enter a contact name, phone number, or email address.

   – or –

   Touch to select a recipient from your Contacts. You can also select a recipient from your Groups, Favorites, or Recent calls.

Note: Enter additional recipients by separating each entry with a semicolon (;).

3. Touch the **Enter message** field and type your message.
4. To add an attachment, touch and select a file:
   - **Image**: Choose a picture from Gallery.
   - **Take a picture**: Launch the Camera to take a photo, and then add it to your message by touchping Save.
   - **Video**: Choose a video from Gallery.
   - **Record video**: Launch the Camera to record a video, and then add it to your message by touchping Save.
   - **Audio**: Choose a sound from Music.
   - **Record audio**: Launch Voice Recorder to record a new sound.
   - **S Memo**: Launch S Memo to choose or create a memo.
   - **Calendar**: Add an event from your calendar.
   - **Location**: Attach a map showing your location.
   - **Contacts**: Add a contact entry (namecard) to the message.
5. When finished, touch to send the message.

Note: If you exit a message before you send it, it will be automatically saved as a draft.

Options While Composing a Message

While composing a message, press to reveal additional messaging options:

- **Insert smiley**: Add emoticons, such as a happy face, to your message.
- **Add text**: Insert text or data from S Memo, Contacts, a Location, Calendar, or from Text templates.
- **Add to contacts**: Add the recipient to your Contacts. This option only appears if the recipient is not already in your Contacts.
- **View contact**: View Contact information on the recipient. This option only appears if the recipient is in your Contacts.
- **Add slide**: Add a new page to a message.
- **Add subject**: Add a subject line to the message.
- **Add recipients**: Add additional recipients.
- **Scheduling**: Assign the current message for scheduled delivery at a designated time.
- **Add to spam numbers**: Tag a number as spam so that these messages can be directly delivered to your spam folder.
- **Remove from spam numbers**: Unregister a number from the spam number list. This option only appears if the number was previously registered as spam.
- **Discard**: Delete the current message.
- **Translate**: Launch S Translate. Here you can both assign the sender's original language and assign a target language for the recipient (they will receive your message in the designated language).

Managing Messages

Messages that are sent to and received from a contact (or a number) are grouped into conversations or "threads" in the All messages screen. Threads let you see all exchanged messages with a contact.

View a Message

1. From the main Home screen, touch **Messaging**.
2. From the message list, touch a message to display it.
   - To view the details of a particular message, in the message thread, touch and hold the message to open the options menu, and then touch **View message details**.
   - If a message contains a link to a Web page, touch the message and then touch the link to open it in the Web browser.
   - If a message contains a phone number, touch the message and then touch the phone number to dial the number or add it to your contacts.

3. While viewing a MMS message, touch the play icon (on a video or audio file) to play back the file or touch an image to view a picture.

Note: File attachments on a MMS message can be saved to an optional memory card (not included). Touch and hold on the attachment, and then touch **Save attachment**. Select the attachment and touch **Save**.

Reply to a Message

1. From the main Home screen, touch **Messaging**.
2. From the message list, touch a message to display it.
3. Touch the **Enter message** field and then type your reply message.
4. When finished, touch **Send**.

Delete a Message

1. From the main Home screen, touch **Messaging**.
2. From the message list, touch and hold the message or thread that you want to delete.
3. From the pop-up menu, touch **Delete message** or **Delete thread**.

Tip: To delete several message threads at once, touch → **Delete threads**. Select the threads you want to delete and touch **Delete**.

Protect a Message from Deletion

You can lock a message so that it will not be deleted even if you delete the other messages in the thread.

1. From the main Home screen, touch **Messaging**.
2. From the message list, touch a message thread.
3. Touch and hold the message that you want to lock.
4. Touch **Lock message** on the pop-up menu. A lock icon displays at the lower right hand side of the message.

Message Options

1. From the main Home screen, touch **Messaging**.
2. Before composing a message, press **Menu** to reveal additional messaging options:
   - **Search**: Search through all messages for a certain word or phrase. Enter a search string in the Search field and touch .
   - **Delete threads**: Delete message threads. Touch each message thread you want to delete, or touch **Select all**. Touch **Delete**.

- **Draft messages**: Display messages saved as drafts.
- **Locked messages**: Display locked messages.
- **Scheduled messages**: Display scheduled messages .
- **Spam messages**: Display messages tagged as spam.
- **Settings**: Access messaging settings.

Messaging Settings

To configure the settings for text messages and multimedia messages.

1. From the main Home screen, touch **Messaging** → → **Settings**.
2. The following settings are available:
   - **Delete old messages**: Automatically delete the oldest messages when the maximum number of messages is reached. Set the maximum number of messages with the Text message limit and Multimedia message limit settings below.
   - **Text message limit**: Set the maximum number of text messages per conversation.
   - **Multimedia message limit**: Set the maximum number of multimedia messages per conversation.
   - **Text templates**: Create and manage text strings that you can add to messages.
   - **Delivery reports** (TXT): Request a delivery report for each message you send.
   - **Group messaging**: Control how messages to multiple recipients are handled. When enabled, a single message is sent to multiple recipients. When disabled, a separate message is sent to each recipient.
   - **Delivery reports** (MMS): Request a delivery report for each message you send.
   - **Auto retrieve**: Control whether message attachment(s) are automatically downloaded when you display a multimedia message. If you disable this option, only the message header displays in the message list, and you'll be prompted to download the attachment(s).
   - **Roaming auto retrieve**: Control whether message attachment(s) are automatically downloaded while your phone is in roaming mode.
   - **MMS alert**: Set the phone to alert you when you make a change to a message that will convert the message to a multimedia message (MMS).
   - **Bubble style**: Control how messages appear on the screen. Bubbles are the boxes that surround each message.

- **Background style**: Set the background of the message screen.
- **Use the volume key**: Enable changing the text size while reading a message by pressing the Volume Key up or down.
- **Notifications**: Control whether notifications for new messages display in the Status bar.
- **Select ringtone**: Set the ringtone for your message notifications.
- **Vibrate**: Set whether vibration plays along with the ringtone for new message notifications.
- **Message alert repetition**: Set how often your phone notifies you of new message(s).
- **Preview message**: Control whether a preview of a new message appears in the Status bar with the message notification.
- **Emergency Alerts**: Configure emergency alert settings. You can enable or disable some alerts: Extreme Alert, Severe Alert, Amber Alert, and Emergency alert test messages. You cannot disable Presidential alerts.

Warning! The Commercial Mobile Alert System (CMAS) system provides the government the ability to send geographically targeted notifications of emergencies, such as threats to public safety, severe weather events, a hazardous material spill or a missing child in the phone user's area.

- **Emergency notification preview**: Play a sample emergency alert tone.
- **Vibrate**: Set vibrate options for emergency messages.
- **Alert Sound**: Play a sound for emergency messages.
- **Alert reminder**: Sets the reminder interval.
- **Add signature**: Add a text signature to all messages you send.
- **Signature text**: Create your text signature.
- **Spam settings**: Filter incoming messages for spam messages.
- **Add to spam numbers**: Add telephone numbers which will be automatically flagged as spam, when Spam settings is enabled.
- **Add to spam phrases**: Add text phrases which will be automatically flagged as spam, when Spam settings is enabled.
- **Block unknown senders**: Automatically blocks messages from numbers that are not stored as contacts on your phone.

Emergency Alerts

This device is designed to receive wireless emergency alerts from the Commercial Mobile Alerting System (CMAS) which may also be known as the Personal Localized Alerting Network (PLAN). If your wireless provider has chosen to participate in CMAS/PLAN, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Emergency Alerts allows customers to receive geographically-targeted messages. Alert messages are provided by the US Department of Homeland Security and will alert customers of imminent threats to their safety within their area. There is no charge for receiving an Emergency Alert message.

There are three types of Emergency Alerts:

- Alerts issued by the President
- Alerts involving imminent threats to safety of life (Extreme and Severe)
- AMBER Alerts (missing child alert)

Customers may choose not to receive Imminent Threats (Extreme and Severe) and AMBER Alerts. Alerts issued by the President can not be disabled. To disable Imminent Threats and AMBER Alerts, follow the instructions below:

1. From the main Home screen, touch **Messaging** .
2. Press [ ] → **Settings**.
3. Scroll to the bottom and touch **Emergency alerts**.
4. All alerts are enabled by default (checkmark showing). Touch on an alert option to disable the alert and remove the checkmark.

Using Email

Email enables you to review and create email using various email services. You can also receive text message alerts when you receive an important email.

Create an Email Account

1. From the Home screen, touch **Email**. Your accounts screen displays with an Email setup screen displayed.
2. Enter you email address in the **Email address** field.
3. Enter your password in the **Password** field.
4. If you want to see your password as it is being typed, touch **Show password** to create a checkmark.
5. Touch **Next**.
6. At the **Account options** screen, touch any of the options you would like.
7. Touch **Next**.
8. Enter a name for this email account (optional).
9. Touch **Done**.

Create a Corporate Email Account

Use the following procedure to configure your phone to synchronize with a corporate email account.

1. From the Home screen, touch **Email**.
   Your accounts screen displays with an Email setup screen displayed.
2. Enter you email address in the **Email address** field.
3. Enter your password in the **Password** field.
4. If you want to see your password as it is being typed, touch **Show password** to create a checkmark.
5. If you want all of your emails sent from this email account by default, touch the checkbox to create a checkmark. This checkbox only appears if you have previously set up an email account.
6. Touch **Manual setup**.
7. Touch the **Microsoft Exchange ActiveSync** field.
8. Enter all the Exchange server information, Domain, User name and Password, then touch **Next**.
9. At the **Activation** prompt, touch **OK**.
   The **Account options** screen is displayed.

10. Enter the desired information in the different fields, then touch **Next**.
11. Enter an Account name for this account (Optional) and touch **Done**.

    Wait for the Inbox to synchronize before use.
12. Press → **Settings** to change the account settings.

Create Additional Email Accounts

To create additional email accounts after setting up your first account, follow these steps:

1. From the Home screen, touch **Email**.

   Your Email screen displays showing your emails from the active account.
2. Press → **Settings**.
3. Touch **Add account** to add another email account.
4. Enter the information required to set up another account.

Switch Between Email Accounts

1. From the Home screen, touch **Email**.

   Your Email screen displays showing your emails from the active account.
2. Touch at the top of your screen.

   Your Email accounts screen is displayed.
3. Touch the Email account **Inbox** you would like to switch to. You can also select **Combined inbox** which will display email messages from all accounts.
4. The new Email account is displayed.

Using Gmail

Gmail is Google's web-based email. When you first setup the phone, Gmail is configured. Depending on the synchronization settings, Gmail is automatically synchronized with your Gmail account.

Sign In to Your Gmail Account

Note: You must sign in to your Gmail account in order to access Gmail.

1. Sign on to your Google account if you are not already signed on.
2. From the Home screen, touch ➔ **Gmail**.
3. Follow the on-screen instructions.

Create a Gmail Message

1. From the Gmail Inbox, touch at the bottom of the screen to create a new message.
2. Enter the recipients Email address in the **To** field. Separate multiple recipient email addresses with a comma.
3. Touch and select **Add Cc/Bcc** to add a carbon or blind copy.
4. Enter the subject of this message in the **Subject** field.
5. Touch the **Compose email** field and begin composing your message.
6. Touch to send.

View a Gmail Message

1. From the Gmail Inbox, touch a message to view it.
2. The following options are available after a message has been selected:
   - **Archive** : Archive the selected message.
   - **Delete** : delete the message.
   - **Change Labels** : Attach labels to a message. This is similar to putting it in a folder.
   - **Mark Unread** : After reading a message, mark as unread.
   - **Newer**: Swipe your screen to the right to see newer messages.
   - **Older**: Swipe your screen to the left to see older messages.
3. Press to select one of the following additional options:
   - **Move to**: Move the message to a different folder or label.
   - **Change labels**: Attach labels to a message. This is similar to putting it in a folder.
   - **Mark important/not important**: Set the importance of a message.
   - **Mute**: Mute the sound in a message if applicable.
   - **Report spam**: Report a message as spam. Touch the UNDO option if you change your mind.
   - **Report phishing**: Report a message that you feel is trying to improperly get information from you.
   - **Settings**: Display Email settings that you can modify.
   - **Send feedback**: Send feedback or report a problem.
   - **Help**: Display the Google.com webpage so you can search the web for help.

Other Gmail Options

1. Swipe the top of the Gmail inbox downward to refresh—send and receive new emails, and synchronize your email with the Gmail account.
2. Touch to search through your Gmail messages.

Hangouts

Hangouts is a free Windows and web-based application for instant messaging offered by Google. You can connect with your friends across computers and various Android devices. You can have conversations or video calls with up to 10 friends.

Note: The first time you use Hangouts, you will need to download the updated application from the Play Store.

1. Log on to your Google account if you have not already done so.
2. From the Home screen, touch ➔ **Hangouts** .
3. The first time you access Hangouts, touch **Confirm** to confirm your mobile number. If the number is not correct, touch **Edit Number** to change it.
4. Begin using Hangouts.
5. Press ➔ **Help** for more information on using Hangouts.

Google+

Google+ makes messaging and sharing with your friends a lot easier. You can set up Circles of friends, visit the Stream to get updates from your Circles, use Messenger for fast messaging with everyone in your Circles, or use Instant Upload to automatically upload videos and photos to your own private album on Google+.

1. Sign on to your Google account.
2. From the Home screen, touch ➔ **Google+**.
3. Select the account you want to use to sign in to Google+.
4. Follow the on-screen instructions to use Google+.
5. Visit google.com/mobile/+/ for more information.

Manage Applications

Apps Screen

The Apps screen ( ) holds all applications installed on your device. Applications that you download and install are also added to Apps.

From the Apps screen, you can change the way apps appear on the screen, uninstall apps you've downloaded, and share apps with friends. When you install new apps, new screens are added to hold them.

The Apps screen is like the Home screen—it consists of panels that extend beyond the display width to provide more space. Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

Tip: You can place shortcuts to apps on the Home screen, for quick access to the app. For more information, see *"Shortcuts and Widgets"* on page 20.

Download and Install Apps

Find new apps to download and install on your device:

- **Play Store**: For more information, see *"Play Store"* on page 81.
- **Samsung Apps**: For more information, refer to *"Samsung Apps"* on page 83.

Uninstall Apps

You can uninstall apps you download and install. Pre-loaded apps cannot be uninstalled.

1. From the Home screen, touch **Apps**.
2. Touch **Menu** → **Uninstall**.
3. Apps that can be uninstalled show on their icon. Touch ; then follow the prompts to uninstall the app. Pre-loaded apps cannot be uninstalled.

Customize the Apps Screens

Choose a View

By default, app icons appear in Grid view. You can change the view to list view.

1. From the Home screen, touch **Apps**.
2. Touch **Menu**; then touch **View type**.
3. Choose an option:
   - **Customizable Grid**: The default view, which allows you to touch and hold on apps to move them from screen to screen.
   - **Alphabetical grid**: Icons are arranged in a grid, in A-Z order.
   - **Alphabetical list**: Icons display in a list, sorted from A-Z.

Apps Screen Options

1. From the Home screen, touch **Apps**.
2. Touch **Menu** for these options:
   - **Play Store**: Launch Google Play Store, to browse for new apps to download.
   - **Edit**: Touch and hold an app icon then drag it to the Create folder icon to create a new folder. Drag it to the Create page icon to create a new apps screen and place the icon on it. Or drag it to App info to view information about this app.
   - **Create folder**: Create a new folder to hold the app icon.
   - **Uninstall**: Remove an app that you downloaded from your phone. Preloaded apps cannot be uninstalled.
   - **Downloaded applications**: Display all apps you've downloaded.
   - **View type**: Configure the apps screen.
   - **Share apps**: Select apps you've downloaded (not available for pre-loaded apps) to share via Dropbox, Bluetooth, ChatOn, Email, Flipboard, Gmail, Google+, Hangouts, Messaging, S Memo, or Wi-Fi Direct.
   - **Hide applications/Show hidden applications**: Control whether app icons are visible in Apps. Hiding an icon does not remove the app from your phone.

Calculator

Use your phone's Calculator to perform mathematical calculations.

- From the Home screen, touch **Apps** → **Calculator**.

Calendar

Record events and appointments to manage your schedule.

1. From the Home screen, touch **Apps** ➔ **Calendar**.
2. Touch **Year**, **Month**, **Week**, **Day**, **List**, or **Task**.
3. Touch **Menu** for options:
   - **Go to**: Display a specific date.
   - **Delete**: Delete an event.
   - **Search**: Search for calendar events.
   - **Sync**: Refresh Calendar with events from your accounts.
   - **Calendars**: Select which calendars from your accounts to display.
   - **Settings**: Customize the calendar.

Sending Events

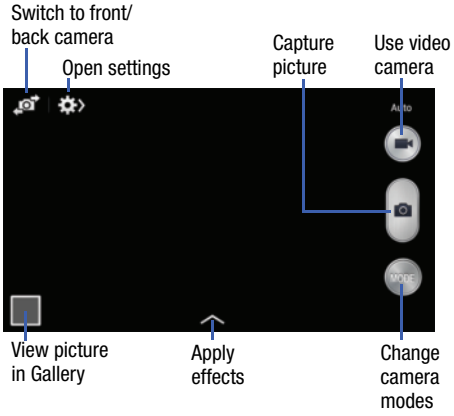
Send events as vCalendar files to other Bluetooth devices, as message attachments, or via Wi-Fi Direct.

1. From the Home screen, touch **Apps** ➔ **Calendar**.
2. Touch an event to display its details.
3. Touch **Menu** ➔ **Share via**. Follow the prompts to select a sharing method and share the event.

Camera

You can use the camera or camcorder to take and share pictures and videos.

Taking pictures with your phone's built-in camera is as simple as choosing a subject, pointing the camera, then pressing the camera key.



Important! Do not take photos of people without their permission.
Do not take photos in places where cameras are not allowed.
Do not take photos in places where you may interfere with another person's privacy.

Take a Picture

You can take pictures with your phone's front or back camera, or combine shots with Dual mode.

1. From the Home screen, touch **Apps** ➔ **Camera**.
2. Using the phone's screen as a viewfinder, compose your shot by aiming the camera at the subject. While composing your picture, use the on-screen options, or these gestures:
   - Press the **Volume Key** up or down to zoom in or out, or touch the screen with two fingers and pinch or spread them on the screen to zoom in or out.
   - Touch the screen to focus on the area you touched.
3. Touch to take the picture.

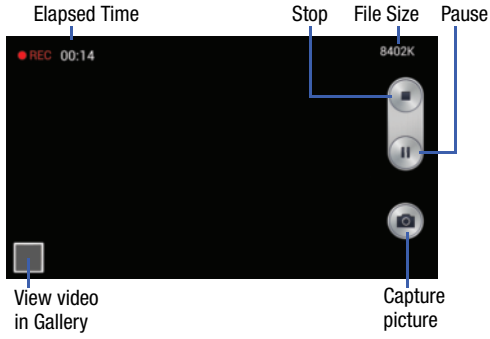
Record Videos

In addition to taking pictures, you can record, view, and send videos with your phone's built-in video camera.

1. From the Home screen, touch **Apps** ➔ **Camera**.

Note: When the Camera app is initially launched, the screen displays on-screen camera controls, including the Record Video button. While recording video, video camera controls are temporarily displayed. For more information about the Camera screen, see *"Camera"* on page 62.

2. Using the phone's screen as a viewfinder, compose your shot by aiming the camera at the subject. While composing your shot, use the on-screen options, or these gestures:
   - Press the **Volume Key** up or down to zoom in or out, or touch the screen with two fingers and pinch or spread them on the screen to zoom.
   - Touch the screen to focus on the area you touched.
3. Touch **Record** to begin recording.



4. While recording, you can use these options:
   - Touch the screen to change the focus area to the area you touched.
   - Touch to take a picture while continuing recording.
   - Touch **Pause** to temporarily stop recording. Touch **Start** to begin recording again.
   - Touch **Stop** to stop recording.

Camera Options

Camera options are special options that you can choose, right on the camera screen, to make your pictures or videos special.

1. From the Home screen, touch **Apps** ➔ **Camera**.
2. Touch an option:
   - **Front/Back Camera**: Touch to switch between the front and back cameras. With the front camera, you can take self-portraits or record yourself. With the back camera, you can take pictures or record what's in front of you.
   - **Mode**: Touch MODE to choose a shooting mode. Scroll available modes, and then touch a mode to select it. Modes include:
     - **Auto**: Automatically adjusts the exposure to optimize the color and brightness of pictures. In Auto mode, you can take single or burst shots (take burst shots by holding Capture button to take multiple shots until you lift your finger).
     - **Beauty face**: Automatically enhances facial features.
     - **Best photo**: Allows you to select the best shot from multiple shots you take at the same time.
     - **Continuous shot**: Captures a series of photo continuously at a rate of 3 per second for as long as you touch and hold the Capture button (maximum of 20 photos at a time). These photos are saved together as a group in a folder in Gallery.
     - **Best face**: Allows you to select the best shot of each subject, to get the best possible group shot.
     - **Sound & shot**: Adds a few seconds of background sound to enhance pictures.
     - **Rich tone (HDR)**: Allows you to take pictures in various exposures and merge them to create pictures with rich color.
     - **Panorama**: Take multiple pictures to merge into one expansive panoramic picture.
     - **Sports**: Allows you to capture clear shots of a moving subject.
     - **Night**: Allows you to take clearer, brighter pictures in low light.

Quick Camera Settings

Use Quick settings to quickly configure settings while you take pictures and record videos.

1. From the Home screen, touch **Apps** ➔ **Camera**.
2. Touch to access settings:
   - **Advanced settings**: Touch to access advanced camera settings. For more information, see *"Advance Camera Settings"* on page 65.
   - **Flash**: Touch to choose a flash setting.
   - **Voice control**: Touch to access voice control settings, for using voice commands to take pictures and record video. For more information, see *"Voice Control"* on page 136.
   - **Timer**: Touch to choose a timer setting to delay the taking of pictures or recording.
   - **Recording mode**: Touch to choose a mode for recording. Choose Limit for MMS to restrict recordings to a size that can be attached to a multimedia message. Choose Normal to control the speed of recording.
   - **Share**: Touch to choose a method for sharing pictures and videos. You can choose Share shot, Buddy photo share, ChatON photo share, or Remote viewfinder.
   - **Hide Settings**: Touch to hide Quick camera settings.

Advance Camera Settings

Use Advanced settings to configure default options for pictures and videos.

1. From the Home screen, touch **Apps** ➔ **Camera**.
2. From the Camera screen, touch and then touch for these settings:
   - **Photos**
     - **Photo size**: Choose the default size for pictures.
     - **Face detection**: Set the camera to automatically adjust settings for taking pictures of faces.
     - **Metering**: Set how the camera measures the light source.
     - **ISO**: Set the sensitivity of the camera's light meter.
     - **Anti-Shake**: Allow the camera to compensate for movement of the phone when taking pictures.
     - **Save as**: Select how your device should handle saving rich tone photos-save both the Rich tone photo and the original photo, or save only the Rich tone photo. This option is only accessible when you have selected Rich tone (HDR) from the camera modes.
   - **Videos**
     - **Video size**: Choose the default size for videos.

- **General Settings**
  - **GPS tag**: Store GPS location information in picture files.
  - **Review**: Set pictures to display briefly after you take them so you can review them.
  - **Volume Key**: Choose a function for the Volume Key while using the Camera: as a Zoom key, the Camera key, or the Record key).
  - **Timer**: Set a timer to delay the taking of pictures or recording.
  - **White balance**: Choose a setting for current light conditions.
  - **Exposure value**: Adjust the brightness of pictures.
  - **Guidelines**: Display guidelines on the screen to aid in composition.
  - **Flash**: Choose a flash setting.
  - **Voice control**: Take pictures or record videos by speaking commands. For more information, see Voice Control.
  - **Contextual filename**: Add GPS information to filenames. GPS tag must be enabled to use contextual filenames.
  - **Storage**: If you have an optional memory card installed (not included), you can choose whether to save files to device memory or to the memory card.
  - **Reset**: Return settings to the factory defaults.

ChatON

With the ChatON application, you can interact with friends and family with text, images, hand-written notes and video shared instantly. You can chat in groups, while a Web client will allow the easy sharing of content and conversations between your phone and PC.

- From the Home screen, touch **Apps** ➔ **ChatON**.

Chrome

Use Google Chrome to browse the web.

- From the Home screen, touch **Apps** ➔ **Chrome**.

City ID

Subscribe to City ID to display city and state for incoming calls and to look up city and state information for phone numbers.

- From the Home screen, touch **Apps** ➔ **City ID**.

Clock

The Clock application includes these features:

- **Alarm**: Create alarms to go off once, or to repeat.
- **World clock**: Display the time and date in any time zone.
- **Stopwatch**: Record lap times.
- **Timer**: Measure elapsed time.
- **Desk clock**: Display the date and time in large format, for easy viewing.

■ From the Home screen, touch **Apps** ➔ **Clock**.

Contacts

Use Contacts to store information for your friends, family and colleagues, to make contacting them easy.

For more information, see *"Contacts"* on page 31.

■ From the Home screen, touch **Apps** ➔ **Contacts**.

Downloads

View and manage files downloaded to your phone.

1. From the Home screen, touch **Apps** ➔ **Downloads**.
2. Touch an item to open it (if an appropriate application is installed.)

Note: Applications you download in Google Play Store are managed in Play Store, and will not appear in Downloads.

Dropbox

Dropbox is a "cloud" file storage service. The Dropbox app lets you create an account with Dropbox or link with your existing Dropbox account.

For more information, visit: dropbox.com.

■ From the **Apps** screen, touch **Dropbox**.

Email

Send and receive email using popular email services.

For more information, see *"Using Email"* on page 54.

- From the Home screen, select **Apps** ➔ **Email**.

Flipboard

The Flipboard application creates a personalized digital magazine out of shared information. Access news stories, personal feeds and other related material. Flip through Facebook news feed, tweets from your Twitter account, photos from friends, and more.

- From the Home screen, select **Apps** ➔ **Flipboard**.

G+ Photos

Automatically save every photo you take with your phone to your Google+ account. Then it is easy to view, organize, and share them with friends and family of your choice. You'll need to be signed in to your Google Account to use this app.

- From the Home screen, select **Apps** ➔ **G+ Photos**.

Gallery

Using the Gallery application, you can view pictures and watch videos that you've taken with your phone's camera, downloaded, or copied to an optional memory card (not included).

For pictures stored on an optional memory card, you can do basic editing such as rotating and cropping. You can also set a picture as your contact picture or wallpaper and share pictures with your friends.

While viewing pictures in the Gallery, scroll up the screen to view more albums. Simply touch an album to view the photos or videos in that album.

If you have pictures or videos stored on an optional memory card (not included), they will be display folders they are stored in, and folders are treated as albums. The actual folder names will be used as the album names. If you have downloaded any photos and videos, these will be placed in the All downloads album.

Note: Touch **Menu** ➔ **Help** to learn about Gallery.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Browse files stored in your phone's memory, or on an optional installed memory card (not included). From the main Gallery screen, you have these options:
   - Touch the menu in the toolbar to display files by Albums, All, Locations, People, or Favorites.
   - Touch a picture or video to display it in full screen view.
   - Touch and hold thumbnails to select them (indicated by a check mark).
   - Touch to create a New album. Give the album a name, and then select and drag thumbnails to the album to move or copy files to the new album.
   - Touch to launch the Camera app.
   - Touch for Gallery options (options may vary depending on the view):
     - **Select album/Select item**: Depending on the view, touch albums or items to select them. After selection, you can touch again for options you can use with the selected item.
     - **Slideshow**: Choose options to create a slideshow for viewing your pictures and videos.
     - **Sort by oldest/latest**: Sort items by date.
     - **Scan for nearby devices**: Scan for Wi-Fi devices to share photos and videos.
     - **Settings**: Configure Gallery settings.
     - **Help**: Get help using Gallery.

View Photos and Videos

After selecting an album from the Albums tab, you can browse the photos and videos of that album. Touch a photo or video to view it fullscreen.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Touch a thumbnail to view the photo or video. While viewing, you can use these options:
   - **Select device**: Send the photo or video to a nearby device.
   - **Share via**: Choose an option for sharing the photo or video.
   - **Trim**: Remove the beginning and ending frames of a video.
   - **Delete**: Delete the photo or video.
   - **Camera**: Launch the Camera app.
3. Touch for more options (options may vary according to item being viewed):
   - **Edit**: Edit the photo.
   - **Play continuous shot**: View Continuous shot photos in quick secession.
   - **Create animated photo**: Create an animated photo using up to eight Continuous shot photos.
   - **Favorite**: Mark the photo or video as a favorite.
   - **Slideshow**: View a slideshow of your photos and videos.
   - **Photo frame**: Add a decorative frame to the photo.
   - **Photo note**: Write a note on the 'back' of the photo.
   - **Copy to clipboard**: Place the photo on the clipboard for pasting into other apps.
   - **Print**: Print the photo to a compatible Samsung Wi-Fi printer (not included).
   - **Rename**: Rename the photo or video.
   - **Buddy photo share**: Share the photo with people tagged in the photo.
   - **Rotate left**: Rotate the photo 90 degree to the left.
   - **Rotate right**: Rotate the photo 90 degree to the right.
   - **Crop**: Crop the photo.
   - **Set as**: Set the photo as a Contact photo, or as wallpaper for the Home screen and Lock screen.
   - **Details**: View file details about the photo or video.

- **Settings**:
  - **SNS data management**: Enable **Sync only via Wi-Fi** to only sync photos and videos when connected to a Wi-Fi network.
  - **Tags**: Enable **Tag buddy** and **Face tag**. Tag buddy identifies each photo with information such as the weather, location, people in the photo, or date created. Face tag scans each photo to detect people's faces, which you can then tag with their name.
  - **Sound & shot**: Enable **Auto play sound** to automatically play the recorded sound when viewing pictures taken in Sound & shot mode.

Zoom In or Out on a Photo

There are two ways you can zoom in or out of a photo.

- Touch the screen twice quickly to zoom in and then touch the screen twice quickly again to zoom out.

  – or –

  You can also use “pinch” and “spread” gestures to zoom in or out. For more information, refer to *“Pinch and Spread”* on page 22..

Editing a Photo

You can edit your photos using the built-in Photo editor application on your device. The photo editor application provides basic editing functions for pictures that you take on your phone. Along with basic image tuning like brightness, contrast, and color it also provides a wide variety of effects used for editing the picture.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Select a folder location and touch a file to open it.
3. With the image displayed, press **Menu** ➔ **Edit** to lauch the photo editor.
4. Touch and hold the image then select an option:
   - **Selection mode**: provides several on-screen selection options such as: Select area, Inverse selection, Selection size, and Selection mode (Magnetic, Lasso, Brush, Round, and Square).
   - **Select all**: select the entire area of the current image.
   - **Clipboard**: copies the currently selected are to your device’s clipboard.

5. Use the following editor controls to edit your picture:

Previous: Display the previous photo project.

Next: Display the next photo project.

Cancel: Close the currently displayed photo.

Save: Save this photo to the memory card.

Rotate: Rotate a photo in all 4 directions. You can also mirror image the photo.

Crop: Crop (cut-out) an area of a photo.

Color: Auto adjust color, Brightness, Contrast, Saturation, Adjust RGB, Temperature, Exposure, and Hue of a photo.

Effect: Add various effects to your photo.

Portrait: Apply various face correction effects such as Red-eye fix, Airbrush face, Face brightness, Out-of-focus, Beauty face, Face reshape, or Spot healing.

Sticker: Place various pre-created on-screen stickers on top the of current image.

Drawing: Draw on the picture using a brush, pen, or eraser.

Frame: Place a pre-created border style on top of the current image.

6. Press to access the following options:
   - **Save as**: allows you to rename your current image and save it to your gallery.
   - **Select image**: allows you to select a new image for editing.
   - **Take picture**: allows you to activate the camera and take a new image for editing.
   - **Share via**: allows you to share your saved photo via Add to Dropbox, Bluetooth, ChatON, Email, Flipboard, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.
   - **Set as**: assigns the currently saved image as either a: Contact photo, Home and lock screens, Home screen, or Lock screen.

Sharing Pictures and Video

You can share pictures and videos via Email, Messaging, Bluetooth, or popular sharing services.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Touch an album to display preview. Touch **Menu** ➔ **Select item**, and then touch previews to mark them for sharing.
3. Touch **Share via** and follow the prompts.

Setting a Picture as a Contact Photo

Set a picture as a contact's photo. The contact's photo displays with notifications to calls or messages from the contact.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Touch a category, and then touch a picture to select it.
3. Touch **Menu** ➔ **Set as** ➔ **Contact photo**.
4. Select a contact, or create a new contact, with the selected picture as the contact's photo.

Setting a Picture as Wallpaper

Set a picture as the wallpaper for the Home and Lock screens.

1. From the Home screen, touch **Apps** ➔ **Gallery**.
2. Touch a category, and then touch a picture to select it.
3. Touch **Menu** ➔ **Set as**.
4. Select an option, from Home screen, Lock screen, or Home and lock screens wallpaper. Use the crop tool to edit the picture. Touch **Done**.

Gameloft

This application lets you preview and download great mobile games for your device.

1. From the Home screen, touch **Apps** ➔ **Gameloft**.

Gmail

Send and receive emails via Gmail, Google's web-based email.

For more information, see *"Using Gmail"* on page 56.

- From the Home screen, touch **Apps** ➔ **Gmail**.

Google

Use Google to search the Web.

- From the Home screen, touch **Apps** ➔ **Google**.

Google Now

Google Now recognizes repeated actions performed on the device (including accessing locations, repeated calendar appointments, search queries, and more). Google Now uses these actions to automatically send updates for user-specific information in the form of “cards.”

For more information, visit: google.com/landing/now.

Note: You must be signed in to your Google account to use Google Now. If not, touching **Google Now** will launch a basic Google search.

1. Press and hold the **Home Key**, and then touch **Google Now**.
2. Follow the prompts to set up and use Google Now.

Note: When Google Now is enabled, you can also access it by touching **Apps** ➔ **Google**.

Google Settings

As Google has become more intertwined with other applications, this menu provides a quick and ready access point to configure preferences for Google+, Maps & Latitude, Location, and so on.

Note: You must be signed in to the application in which you want to configure (ex: sign in to Google+ to configure Google+ settings).

- From the Home screen, touch **Apps** ➔ **Google Settings**.

Google+

Stay connected and share life as it happens with Google+ on your device. Join a Hangout, post a photo, or see what friends are sharing while you’re on the go.

- From the Home screen, touch **Apps** ➔ **Google+**.

Group Play

Share currently viewed documents or photos, or currently playing music files with other devices connected to the same Wi-Fi network and your device.

Create a group and set your device as the Mobile AP using a portable Wi-Fi hotspot.

Important! Connected devices cannot have access to the internet using your data network.

If your device supports NFC, connect with other devices by holding them close together.

1. From the Home screen, touch **Apps** ➔ **Group Play**.
2. Touch **Agree** for Group Play instructions.

Hangouts

Hangouts is a free web-based application for instant messaging offered by Google.

For more information, refer to *"Hangouts"* on page 58.

- From the **Apps** screen, touch **Hangouts**.

Help

Learn about your device.

- From the Home screen, touch **Apps** ➔ **Help**.

Internet

Your phone is equipped with a full HTML Browser, which allows you to access the internet.

- From the Home screen, touch **Internet**.

Navigating the Internet

Command Keys

- Touch **Back** to return to the previous page.
- Touch **Forward** to go forward.

Touching and Dragging

- Touch and drag your finger on the screen to navigate pages, and to reposition pages within the screen.

Entering Text in a Field

- While browsing, touch a text field to display the virtual QWERTY keyboard to enter text.

Zoom

- Tap the screen twice to zoom in or out.
- "Pinch" the screen to zoom out, or "spread" the screen to zoom in. For more information, refer to *"Pinch and Spread"* on page 22.

Selecting Items on a Page

While browsing pages, use gestures and menus to navigate:

- Touch an item to select it.
- Touch a hyperlink to follow the link.
- Touch and hold on a hyperlink for options.

Entering a URL

Access a website quickly by entering the URL.

1. From the Home screen, select **Internet**.
2. Touch the **URL** field at the top of the screen to enter the URL using the virtual QWERTY keyboard; then touch **Go**.

Local

Google Places is now Google Local, to use your location to help you find destinations, such as restaurants, bars, hotels, attractions, ATMs, and gas stations, or you can enter a location.

Note: You must enable location services to use Local, and some features require Standalone or Google location services. For more information, see *"Location Services"* on page 138.

- From the Home screen, touch **Apps** ➔ **Local**.

Maps

Use Google Maps to find your current location, plus get directions and other location-based information.

Note: You must enable location services to use Maps, and some features require Standalone or Google location services. For more information, see *"Location Services"* on page 138.

- From the Home screen, touch **Apps** ➔ **Maps**.

Messaging

Send and receive text and multimedia messages.

For more information, see *"Messaging"* on page 47.

- From the Home screen, touch **Messaging**.

Mobile Data Security

A subscription to Mobile Data Security provides a comprehensive mobile security, privacy, and recovery solution to keep your data safe and secure in the event of a lost or stolen phone.

- From the Home screen, touch **Apps** ➔ **Mobile Data Security**.

Mobile TV

Get live, on-demand and downloadable television delivered to your phone on the network with the highest satisfaction of any national carrier. With Mobile TV from U.S. Cellular, you get access to sports, news, kids shows, reality TV and music video entertainment.

- From the Home screen, touch **Apps** ➔ **Mobile TV**.

MobiTiles

MobiTiles gives you the news, tech updates, entertainment scoops and sports scores you want. Click or flip through tiles of continuously updating digests, then touch through for the whole story or video.

- From the Home screen, touch **Apps** ➔ **MobiTiles**.

Music

My Music plays songs stored on your phone or an installed memory card.

1. From the Home screen, select **Apps** → **Music**.
2. Music Player scans for songs stored in phone memory, or on an installed memory card and displays your songs on the **Songs**, **Playlists**, **Albums**, **Artists**, and **Folders** tabs.
3. Touch a music file to begin playback. During playback, use the sound and playlist controls:

AllShare: Select a device to use for sharing music files.

Volume: Touch to activate on-screen volume control, and then touch and drag on the scale to set volume, or press the Volume Key on the side of the phone to adjust playback volume.

Touch to view the SoundAlive equalizer.

Shuffle: When enabled, songs play in random order. When disabled, songs play in the order they appear in List view.

Play All: Touch to play all songs, an album, or playlist.

Repeat All: Touch to repeat the current song, repeat all songs, or disable repeat mode.

Repeat once: Touch to repeat the current song, album, or playlist once.

List: Touch **List** to switch to a list view of songs.

Now Playing: Touch **Now Playing** to display the current song title and details.

Touch to advance to the next song. Touch and hold to scan forward through the current song.

Touch to go back to the previous song. Touch and hold to scan backward through the current song.

Touch to pause playback.

Touch to resume playback.

Favorites: Touch to add this song to your Favorites list.

Creating a Playlist

1. From the Home screen, select Apps ➔ Music ➔ **Playlists**.
2. Touch Menu ➔ **Create Playlist**. Enter a name for the playlist. Touch **OK**.
3. Touch **Add music** to choose music for the playlist.

Adding a Song to a Playlist

1. From the Home screen, select Apps ➔ Music.
2. Touch and hold on a song; then choose **Add to playlist** from the pop-up menu.
3. Touch a playlist to add the selected song to it, or touch **Create playlist** to create a new playlist and add the selected song to it.

Adding Multiple Songs to a Playlist

1. From the Home screen, select Apps ➔ Music.
2. Touch Menu ➔ **Add to playlist**.
3. Touch songs to select them, or touch **Select all**; then touch **Done**.
4. Select a playlist, or touch **Create playlist** to create a new playlist.

Setting a Song as a Ringtone

You can set a song as a ringtone for all voice calls, for calls from an individual contact, or as an alarm tone.

1. From the Home screen, select Apps ➔ Music.
2. Touch and hold on a song. Touch **Set as** and choose from these options:
   - **Phone ringtone**: Set the song as the default ringtone for all incoming voice calls.
   - **Caller ringtone**: Choose a contact to set the song as the ringtone for calls from the contact.
   - **Alarm tone**: Set the song as the alarm ringtone for a new alarm, or for an existing alarm.

My Files

Find, view and manage files stored on an installed memory card. If the file is associated with an application on your phone, you can launch the file in the application.

1. From the Home screen, touch **Apps** ➔ **My Files**.
2. Touch a folder and swipe your finger on the screen to browse files.
3. Touch a file to open it (if the file is associated with an application).
4. While browsing files, use these controls:
   - Touch **Up** to go back up to a higher directory.
   - Touch **Home** to go back to the root directory.
   - Touch **Menu** for options.

Navigation

Use Google Navigation to search for locations, and get turn-by-turn directions.

Note: You must enable location services to use Navigation, and some features require Standalone or Google location services. For more information, see *"Location Services"* on page 138.

- From the Home screen, touch **Apps** ➔ **Navigation**.

Phone

Place calls, review recent calls, or dial a number to send a message.

For more information, see *"Calling"* on page 41.

- From the Home screen, touch **Apps** ➔ **Phone**.

Play Books

With Google Play Books, you can find more than 3 million free e-books and hundreds of thousands more to buy in the eBookstore.

- From the Home screen, touch **Apps** ➔ **Play Books**.

Play Games

Discover hundreds of games for download and purchase through the Google Play Store.

- From the Home screen, touch **Apps** ➔ **Play Games**.

Play Magazines

Subscribe to your favorite magazines, and have them available to read on your device any time, in any place.

- From the Home screen, touch **Apps** ➔ **Play Magazines**.

Play Movies & TV

With Google Play Movies & TV, you can rent thousands of different movies, to watch instantly, or download for offline viewing later. You'll need to have a Google account set up on your device to download content.

- From the Home screen, touch **Apps** ➔ **Play Movies & TV**.

Play Music

With Google Play Music, you can play music you've downloaded, and music you copied from your computer. You'll need to be have a Google account to download content.

- From the Home screen, touch **Apps** ➔ **Play Music**.

Play Store

All your favorite books, movies, apps, and games are all in one place that's accessible from the Web and your Android device. You'll need to have a Google account set up on your phone to download a new application.

- From the Home screen, select **Apps** ➔ **Play Store**.

Polaris Office 5

Polaris Office 5 is a Microsoft Office compatible office suite. This application provides a central place for managing your documents online or offline. The application can also open Adobe PDF (Portable Document Format) files.

- From the Home screen, touch **Apps** ➔ **Polaris Office 5**.

S Memo

Record ideas instantly and freely with memos containing text, pictures, handwritten notes or drawings, and voice recordings.

1. From the Home screen, select **Apps** ➔ **S Memo**.
2. To create a new memo, touch an option:
   - Touch a template thumbnail.
   - **Text mode**: Open a memo to enter text with the keyboard.
   - **Drawing mode**: Open a memo to draw or write text.

S Translator

Use the translator to translate from one language to another.

- From the Home screen, select **Apps** ➔ **Translator**.

S Voice

Use S Voice to speak commands to perform operations on your phone, and to speak criteria for searches and other operations. Just speak naturally, and S Voice understands what you're looking for. use the power of S Voice to find everything from directions to trivia answers to the current weather forecast.

1. From the Home screen, select **Apps** ➔ **S Voice**.
2. Say "Hi Galaxy", or touch to wake up S Voice; then speak a command or question. Touch for a list of commands; then touch a command to see examples.
3. Touch **Menu** ➔ **Settings** for options.

Tip: You can launch S Voice from most unlocked screens by pressing the **Home Key** twice. Touch **Menu** ➔ **Settings** ➔ **Open via the home key**.

Samsung Apps

With Samsung Apps, you can download hundred of applications from a variety of categories.

1. Sign on to your Samsung account if you have not already done so.
2. From the **Apps** screen, touch **Samsung Apps**.
3. Touch an application that you would like, then follow the on-screen instructions to download.
4. Touch **Menu** ➔ **Help** for additional information.

Samsung Hub

Browse and purchase Music, Video, Books, or Games using Samsung Hub.

1. From the Home screen, select **Apps** ➔ **Samsung Hub**.
2. Select Music, Video, Books, or Games from the Samsung Hub screen.
3. Follow the on-screen instructions to browse, view, or purchase media.
4. Press **Menu** ➔ **Help** for more information.

Samsung Hub Notices

- Any media item (Media Content) may be rented or purchased after you create an account in Samsung Hub.
- Media Content that is purchased and downloaded may be viewed concurrently on up to five (5) devices with Samsung Hub (or “the service”) that are also registered to the same account.
- You may remove a device from your account no more than once every 90 days.

- You may remove Media Content from a device as many times as you'd like. You will have the ability to re-download the Media Content later subject to content re-download availability and content provider permissions.
- You may need network coverage to access Media Content you have acquired through the Service.
- You can use 3G, 4G, or Wi-Fi connectivity to download Media Content.
- Unlike purchased Media Content, rented Media Content will be viewable on only 1 device in your account at a time.
- Media Content is downloaded and saved to your authorized device's SD card. No SD Card included out of box.
- Your Media Content may pause/stop or not download in networks where there is a weak signal.
- You may begin watching downloaded Media Content as soon as a) license acquisition has occurred and b) sufficient amount of the Media Content has been buffered.
- You must finish watching Media Content within the time limit set out for each piece of content (which may be as short as 24 consecutive hours).
- Stopping, pausing or restarting rented Media Content does not extend the available viewing time.
- In no event will rented Media Content be available for a period of more than thirty (30) days (or shorter on a title-by-title basis) after the Media Content has been rented (e.g., if you begin viewing rented Media Content on the 29th day after the rental transaction, but do not finish viewing the entire title, that rented Media Content may not be available for the entire twenty-four (24) consecutive hour period if such period would extend the viewable time beyond the thirty (30) day rental window).

Unless otherwise restricted by the Content Providers, you can download Media Content to your TV using HDMI connections; otherwise, you cannot play Media Content downloaded from your mobile device output. (4/1/2013)

Samsung Link

Samsung Link allows users to share their in-device media content with other external devices using DLNA certified™ (Digital Living Network Alliance) Devices. These external devices must also be DLNA-compliant. Wi-Fi capability can be provided to TVs via a digital multimedia streamer.

Important! You must first connect both of your communicating devices to the same Wi-Fi and be using an active/registered Samsung account prior to using this application. For more information, refer to *"Wi-Fi"* on page 90.

1. From the Home screen, select **Apps** ➔ **Samsung Link**.
2. Touch **Download** and follow the on-screen instructions to download and install the app.

Settings

Configure your phone to your preferences. For more information, see *"Settings"* on page 104.

- From the Home screen, touch **Apps** ➔ **Settings**.

Slacker

Slacker offers free, internet radio for mobile phones.

- From the Home screen, touch **Apps** ➔ **Slacker**.

Important! You must register and create a free account prior to using this service.

Story Album

Create an album with your story on one timeline.

- From the Home screen, select **Apps** ➔ **Story Album**.

Tone Room Deluxe

Tone Room Deluxe is a service that enables you to access the latest and hottest content from your favorite artists for ringtones and ring back tones from your phone or the Web.

- From the Home screen, select **Apps** ➔ **Tone Room Deluxe**.

TripAdvisor

TripAdvisor allows you to access traveler reviews and opinions on hotels, restaurants and more. You can also compare prices and check availability on hotels, flights, car rentals and more.

Note: This application requires a Samsung account for access.

- From the Home screen, select **Apps** ➔ **TripAdvisor**.

Video

The Video application identifies and plays video files (3GP or MP4) stored on your phone or on an optional microSD memory card.

1. From the Home screen, select **Apps** ➔ **Video**.
   All videos that you have on your phone and memory card display.
2. Touch the video that you want to play.
   The video begins playing.
3. The following video controls are available:
   - Pause the video.
   - Start the video after being paused.
   - Press and hold to rewind the video. Touch to go to previous video.
   - Press and hold to fast-forward the video. Touch to go to next video.
   - Streams the current music file to another device via Samsung Link.
   - Volume control.

Volume control showing volume muted.

Full-screen in ratio view. The video is enlarged as much as possible without becoming distorted.

Full-screen view. The entire screen is used, which may cause some minor distortion.

Original size view. The video will be played in its original size.

Stretch to fit. The video is enlarged to fit the screen without becoming distorted.

Play a video as a small pop-up while viewing another screen. Touch and drag the pop-up video to the desired location on the screen. Double-tap the pop-up to return to full screen mode.

Note: The screen view icons are a four-way toggle. The icon that is displayed, is the mode that will display after the icon is touched.

4. While viewing the list, touch **Menu** for options:
   - **Scan for nearby devices**: Scan for available devices for sharing videos.
   - **Sort by**: Display videos by Title (default), Date, Size, or Type.
   - **View as**: View videos in a list, thumbnail, or folder format.
   - **Share via**: Share the video. Touch an option, such as Bluetooth, and follow the on-screen instructions.
   - **Delete**: Touch videos to select them for deletion or touch **Select all** to delete all videos.
   - **Auto play next**: Touch to enable or disable automatic playing of videos in the order they appear.
5. During playback, touch **Menu** for options:
   - **Share via**: Share the video. Touch an option, such as Bluetooth, and follow the on-screen instructions.
   - **Chapter preview**: If chapter information is recorded in the video file, display the chapters. Touch a chapter to begin playing the video at that point.
   - **Trim**: Use the sliders at the bottom of the screen to trim the video.
   - **Via Bluetooth**: Turn Bluetooth on to use Bluetooth services.

- **Video auto off**: Set the option Off or set your video to turn off automatically by touching one of the time values.
- **Settings**: View additional video settings.
- **Details**: Provides details about the video, such as Name, Size, Resolution, and so on.

Voice Recorder

Record your voice or other sounds, and share recordings via Bluetooth, Messaging, or Gmail.

- From the Home screen, touch **Apps** ➔ **Voice Recorder**.

Voice Search

Use voice commands to search the web with Google.

- From the Home screen, touch **Apps** ➔ **Voice Search**.

VPN Client

VPN Client lets you define multiple Virtual Private Networks (VPNs) to your device and connect to them as needed by simply selecting a connection from the VPN Client list.

- From the Home screen, touch **Apps** ➔ **VPN Client**.

WatchON

Use the Samsung WatchON application to use your phone as a remote control for your TV, set top box, DVR, Blu-Ray/DVD, stereo or other device.

Set Up WatchON

1. From the Home screen, select **Apps** ➔ **WatchON**.
2. Follow the prompts to configure WatchON options, such country/region, TV service provider, channel list setup, etc.

Note: Touch **Menu** ➔ **Help** to learn more about WatchON.

Configure Your Device as a Remote

1. From the toolbar, touch **Remote Control**.
2. Touch **Set up now** at the prompt.
3. Follow the prompts to find your TV or other devices and configure your phone to control their operation.

Wi-Fi Now

Wi-Fi Now automatically connects your device to Wi-Fi and helps you save on mobile data usage.

- From the Home screen, select **Apps** ➔ **Wi-Fi Now**.

Your Navigator Deluxe

Your Navigator Deluxe by Telenav provides voice guided turn-by-turn navigation information on an interactive map.

- From the Home screen, select **Apps** ➔ **Your Navigator Deluxe**.

YouTube

View and upload YouTube videos, right from your phone.

- From the Home screen, select **Apps** ➔ **YouTube**.

Wi-Fi

Wi-Fi is a wireless networking technology that provides access to local area networks.

Wi-Fi communication requires access to an existing Wi-Fi network. Wi-Fi networks can be Open (unsecured), or Secured (requiring you to provide login credentials).

Your device supports the 802.11 a/b/g/n Wi-Fi protocols.

Turn Wi-Fi On or Off

When Wi-Fi is turned on, your phone will notify you of available Wi-Fi networks, and you can connect to the Wi-Fi networks.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**.
3. Touch **OFF/ON** to turn Wi-Fi on or off.

Tip: You can also quickly turn Wi-Fi on or off using Quick Settings. From the Home screen, sweep your finger downward to display the Notification Panel. Touch the **Wi-Fi** button to turn Wi-Fi on (green) or off (gray).

Scan and Connect to a Wi-Fi Network

When you turn on Wi-Fi, your device searches for available Wi-Fi connections and displays them.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. When your device completes a scan, touch a Wi-Fi network to connect. If the Wi-Fi network is open, you will be automatically connected. If the Wi-Fi network is secured, enter the password at the prompt to connect.

Add a Wi-Fi Network Manually

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. On the pop-up Wi-Fi settings screen, touch **Add Wi-Fi Network** (below the scanned networks), then enter these fields:
   - **Network Name (SSID)**: Enter the name of the Wi-Fi network.
   - **Security**: Select the type of security used by the Wi-Fi network.
   - **Password**: If the network is secured, enter the password.
   - **Show advanced options**: Select the Proxy settings and IP settings for the network.
4. Touch **Connect** to save the settings and connect to the network.

Advanced Settings

Set up and manage wireless access points.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on.
3. Touch **Menu** for options:
   - **Advanced:**
     - **Network notification**: Send a notification when an open network is available.
     - **Keep Wi-Fi on during sleep**: Specify when to switch from Wi-Fi to mobile data for data communications when the phone goes to sleep (when the backlight goes out).
     - **MAC address**: View your device's MAC address (not configurable).
     - **IP address**: View your device's IP address (not configurable).
   - **WPS push button**: Set up a connection to a WPS (Wi-Fi Protected Setup) router or other equipment.
   - **WPN PIN entry**: View the PIN used by your phone to set up a PIN-secured connection to a Wi-Fi router or other equipment (not configurable).
   - **Help**: Learn about setting up and using Wi-Fi networks.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection.

For example, your phone can use Wi-Fi Direct to share photos, contacts and other content with other Wi-Fi Direct devices. Many of the apps on your device provide options for sharing via Wi-Fi Direct under **Menu**.

Turn Wi-Fi Direct On

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on. (Wi-Fi must be enabled to use Wi-Fi Direct.)
3. Touch **Wi-Fi Direct** to turn Wi-Fi Direct on.

Turn Wi-Fi Direct Off

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**.
3. Touch **Wi-Fi Direct** to view connections.
4. Touch **End connection** to turn Wi-Fi Direct off and terminate all Wi-Fi Direct connections

Note: Turning Wi-Fi off also turns off Wi-Fi Direct and terminates all Wi-Fi Direct connections

Connect to Wi-Fi Direct Devices

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Wi-Fi**. Touch **OFF/ON** to turn Wi-Fi on. (Wi-Fi must be enabled to use Wi-Fi Direct.)
3. Touch **Wi-Fi Direct** to turn Wi-Fi Direct on.
4. Enable Wi-Fi Direct on the target device. Consult the target device's documentation for more information.
5. On your phone, touch **Wi-Fi Direct** to scan for the other device.
6. In the scanned list, touch the target device to connect with it, or touch **Multi-connect** to connect to multiple devices (not all devices support multi-connect).
7. Follow the prompts on both devices to complete the connection.

Bluetooth

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet. If the devices are in range, you can exchange information between them, even if they are in different rooms.

Your device can use Bluetooth to share photos, contacts and other content with other Bluetooth devices. Many of the apps on your device provide options for sharing via Bluetooth under **Menu**.

Turn Bluetooth On or Off

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**.
3. Touch **OFF/ON** to turn Bluetooth on or off.

Tip: You can also quickly turn Bluetooth on or off using Quick Settings. From the Home screen, slide your finger downward to display the Notification Panel. Touch the **Bluetooth** button to turn Bluetooth on (green) or off (gray).

Note: Due to different specifications and features of other Bluetooth-compatible devices, display and operations may be different, and functions such as transfer or exchange may not be possible with all Bluetooth-compatible devices.

Pair with a Bluetooth Device

Pairing initiates a connection between your phone and the target device, usually by using a passcode or PIN. After pairing, your phone and the target device recognize each other and exchange information without having to enter a passcode or PIN.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Make sure that the target device is discoverable, so that your phone can find it. Refer to the target device's documentation for more information.
4. Touch **Scan**. Your phone will start to scan for Bluetooth devices within range.

5. From the list of scanned devices, touch the target device and follow the prompts to complete the pairing:
   - If the target device requires a PIN, enter a PIN for the target device and touch **OK**. When prompted, enter the PIN on the target device.
   - If the device allows automatic or smart pairing, your device will attempt to pair with the device automatically. Follow the prompts on your phone and the target device to complete the pairing.

Note: The pairing and connection status is displayed below the target device in the Bluetooth devices section. When you are connected to the target device, **Bluetooth connected** displays in the Status bar.

Reconnect to a Bluetooth Device

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Make sure that the target device is discoverable.
4. Touch the target device's name in the Bluetooth devices section.
5. If prompted to enter a passcode, try 0000 or 1234, or consult the target device's documentation.

Disconnect or Unpair from a Bluetooth Device

Disconnect from a Bluetooth Device

You can disconnect your phone from a Bluetooth device, such as a headset. Disconnecting does not unpair the Bluetooth device—the next time you connect, your phone and the target device will recognize each other and exchange information without having to enter a passcode or PIN.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Tap the connected device, and then touch **OK** to disconnect.

Unpair from a Bluetooth Device

You can make your phone forget its pairing connection with another Bluetooth device. To connect to the other device again, you may need to enter or confirm a passcode again.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. In the Bluetooth devices section, tap next to the device, and then tap **Unpair**.

Bluetooth Settings

When Bluetooth is on, additional settings are available.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Bluetooth**. Touch **OFF/ON** to turn Bluetooth on.
3. Tap your phone's name to enable or disable visibility to other Bluetooth devices. When your phone is visible, other devices can find your phone during a scan. Your phone remains visible for the period of time set in the Visibility timeout setting.
4. Touch beside a paired device for options:
   - **Rename**: Enter a new name for the paired device.
   - **Unpair**: Delete the Bluetooth connection to this device. To connect to the other device again, you may need to enter or confirm a passcode again.
5. Touch **Menu** for options:
   - **Visibility timeout**: Set the length of time your phone is visible to other devices when you turn on visibility.
   - **Received files**: View files transferred to your phone via Bluetooth.
   - **Help**: Learn about Bluetooth, and other settings.

Tethering and Portable Mobile Hotspot

Use feature lets you share your phone's mobile data connection via USB, Wi-Fi, or Bluetooth.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot** for options:
   - Touch **Portable Wi-Fi hotspot** to share your mobile data connection. For more information, refer to *"Portable Mobile Hotspot"* on page 96.
   - **USB tethering**: Share your mobile data connection via USB.
     - Connect your phone to your PC using a USB cable and touch **USB tethering** to activate the feature. Follow the on-screen instructions to use USB tethering.
   - **Bluetooth tethering**: Share your mobile data connection via Bluetooth.
     - Activate Bluetooth and make sure your device is visible, then touch **Bluetooth tethering** to activate the feature. For more information, refer to *"Bluetooth"* on page 93.
   - Touch **Help** for additional information

Portable Mobile Hotspot

Use your phone as an Internet Access Point (AP) via Portable mobile hotspot. This allows up to ten other devices to connect to the AP via a Wi-Fi network—giving the connected devices access to the Internet.

Turn On Hotspot

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. Touch to control which devices may connect to your Hotspot:
   - **Allow all devices**: Allow all devices to connect.
   - **Only allowed devices**: Limit connections to only those devices in your Allowed devices list.

Connect a Device

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. If the other device is not in your Allowed devices list, tap > **Allow all devices**.
5. On the other device, activate Wi-Fi and scan for Wi-Fi hotspots. Select the name of your phone and enter your Hotspot password (if required).

Note: Follow the other device's instructions for activating Wi-Fi and connecting to your phone.

Allowed Devices

You can limit connections to your Hotspot to only those devices in your Allowed Devices list.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**. Touch **OFF/ON** to enable Portable Wi-Fi hotspot.
4. Touch **Allowed devices** to view the Allowed Devices list.
5. To add a new device to the Allowed devices list:
   - Touch **Add device**.
   - Enter the device's name and MAC address.
6. To remove a device from the Allowed devices list:
   - Touch **Delete**.
   - Touch each device you want to delete, or tap **Select all**.
   - Touch **Delete**.

Note: Using your phone as a mobile hotspot consumes battery power and uses data service. While Mobile Hotspot is active, your phone's applications will use the Mobile Hotspot data service. Roaming while using your phone as a mobile hotspot will incur extra data charges.

Portable Mobile Hotspot Settings

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot**.
3. Touch **Portable Wi-Fi hotspot**.
4. Touch **Configure** for options:
   - **Network SSID**: Enter a name for your phone. This name will be displayed in the other device's Wi-Fi networks listing.
   - **Hide my device**: Do not display your phone's name in the other device's Wi-Fi networks listing.
   - **Security**: Set the network connection to Open (no security) or WPA2 PSK (requires a password).
   - **Password**: Enter a security password. Tap **Show password** to display the password.
   - **Show advanced options**:
     - **Broadcast channel**: Select 2.4 GHz or 5 Ghz as the broadcast channel. If 2.4 GHz is selected, tap Auto to select a different channel.
5. Touch **Menu** for additional options:
   - **Timeout settings**: Set the amount of time your device will be available as a portable Wi-Fi hotspot.

Bluetooth Tethering

Before starting, pair your computer with your device, then configure your computer to obtain its network connection via Bluetooth.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Tethering and portable hotspot**.
3. Connect the other device to your device via USB cable.
4. Touch **Bluetooth tethering** to turn tethering On or Off.

Important! Tethering consumes battery power and increases your data usage. Roaming while using tethering will incur extra data charges.

VPN

Set up and manage Virtual Private Networks (VPN).

Note: VPN settings include storage of login credentials on your phone. You must configure a screen unlock pattern, PIN or password before setting up a VPN. For more information, refer to *"Screen Lock"* on page 109.

Configure a Basic VPN

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **VPN**.
3. Touch **Add VPN** to add a new VPN:
   - **Name**: Enter the name of the VPN.
   - **Type**: Choose the type of VPN: PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSec Xauth RSA, or IPSec Hybrid RSA.
   - **Server address**: Enter the VPN server address.
   - **PPP Encryption (MPPE)**: Touch to enable, if applicable.
   - **Show advanced options**: Touch to set other options, depending on the type of VPN.
4. Tap **Save** to save the VPN.

NFC and Beaming

Use NFC (Near Field Communication) to share information between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

NFC beams transmits files using two protocols: Android Beam and S Beam.

- Use **Android Beam** for sending smaller files such as browser pages, YouTube videos, contacts, pictures, etc.
- Use **S Beam** for sending larger files, such as HD videos.

Note: Each app determines what kind of data is beamed. Not all apps use NFC, and not all files can be transmitted using NFC.

Turn NFC On or Off

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **NFC**.
3. Touch **OFF/ON** to turn NFC on or off.

Android Beam

Use Android Beam to share smaller files, such as browser pages, YouTube videos, contacts, pictures, etc.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **NFC**.
3. Touch **OFF/ON** to turn NFC on. When you turn on NFC, Android Beam is automatically turned on.
4. Turn on Android Beam on the target device. Refer to the target device's documentation for instructions on using Android Beam.
5. With the file you wish to share displayed or opened on your phone, simply touch your phone to the target device (typically back-to-back). Your phone will vibrate to indicate it is able to transmit the file.
6. After the vibration, touch your screen to send the file to the target device.
7. Follow the prompts on the target device for receiving the beamed file.

S Beam

Use S Beam for sending larger files, such as HD videos, between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **OFF/ON** to turn S Beam on. (When you turn on S Beam, NFC is automatically turned on).
3. Turn on S Beam on the target device. Refer to the target device's documentation for instructions on using S Beam.
4. With the file you wish to share displayed or opened on your phone, simply touch your phone to the target device (typically back-to-back). Your phone will vibrate to indicate it is able to transmit the file.
5. After the vibration, touch your screen to send the file to the target device.
6. Follow the prompts on the target device for receiving the beamed file.

Nearby Devices

Share files with nearby devices using the DLNA (Digital Living Network Alliance) standard via Wi-Fi.

To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

Important! Use care when enabling file sharing for nearby devices. When enabled, other devices can access data on your device.

Turn File Sharing On or Off

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Nearby devices**.
3. Touch **File sharing** to turn file sharing on or off.

Configure File Sharing

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Nearby devices**.
3. Under **Advanced**, touch options to control how content is shared from your device:
   - **Shared contents**: Choose the type of content to share.
   - **Allowed devices list**: View and manage devices allowed to connect to your device.
   - **Not-allowed devices list**: View and manage devices restricted from connecting to your device.
   - **Download to**: Choose a location to save downloaded content (Device or SD card).
   - **Upload from other devices**: Choose how to handle incoming files from other devices (Always accept, Always ask, or Always reject).

Screen Mirroring

Use the Screen Mirroring feature to share media files on your phone with an HDMI device, such as an HDMI TV.

Note: This feature requires an optional AllShare Cast dongle accessory (not included).

1. Connect the AllShare Cast dongle to the HDMI device using an HDMI A-to-A cable.
2. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
3. Touch **Screen Mirroring**. Your phone will scan for available devices.
4. Touch a device, and follow the on-screen prompts.

Note: Press **Menu** ➔ **Help** for more information.

Connect to a Computer

Connect your device to a computer to transfer data between your device and the computer. Use the USB cable that comes with your device, or use one of the pre-loaded apps on your device to connect wirelessly.

Transfer Data

Connect your device to a computer, via USB cable, to transfer data as a Media device using MTP (Media Transfer Protocol), or as a Camera using PTP (Photo Transfer Protocol).

1. Attach your device to the computer with a USB data cable. Your device recognizes the connection as the last connection method you used, and displays a connection alert in the Status bar and Notifications.
2. From the Home screen, sweep your finger downward to display Notifications, then touch the alert.
3. Select a connection method:
   - **Media device (MTP)**: Transfer media files with Windows, or using Android file transfer on a Mac (see android.com/filetransfer).
   - **Camera (PTP)**: Transfer photos using camera software, and transfer files to computers that do not support MTP.

4. On your computer, choose a method for accessing your device. Available options depend on the programs installed on your computer.
5. Transfer files to the memory card. When finished, you can disconnect the USB cable.

Kies via Wi-Fi

Use Kies via Wi-Fi to connect to the Kies program on your desktop computer. Use Samsung's Kies desktop software to transfer music, contacts, and photos, update software, and sync wirelessly with your phone.

Kies via Wi-Fi connects using your Wi-Fi network to the Kies application installed on your computer.

Note: Your phone, and the computer with the Kies application, must be connected to the same Wi-Fi network.

For more information, and to download Samsung Kies (for Windows/Mac), visit: samsung.com/us/kies.

Note: To sync your device to a PC, it is highly recommended that you install Samsung Kies. If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer. Also, ensure that you have Samsung Kies 2.0 or Windows Media Player 10 or higher installed on your computer.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Kies via Wi-Fi**, and follow the online instructions.

Section 8: Settings

This section explains Settings for customizing your device.

Accessing Settings

- From a Home screen, touch **Apps** ➔ **Settings**.

  – or –

  From any screen, touch the top of the screen and swipe downward, to display the Notification Panel, and then touch **Settings**. For more information, refer to *"Notification Panel"* on page 18.

Settings Tabs

The Settings are divided into 4 main groups. When the Settings screen displays, the following 4 tabs are located at the top of the screen:

- **Connections**: Connect to wireless networks, including 3G, 4G, and Wi-Fi, and to other devices.
- **My device**: Personalize your phone, including sounds and the display, accessibility, and input.
- **Accounts**: When you set up accounts on your phone, such as your Google Account, Samsung Account, email account, or social networking accounts, you can synchronize information between your phone and the account. Types of information you can synchronize include contacts, pictures, videos, and other types of files (options may vary by account type and service provider).
- You can also set up options for backing up information from your phone to the cloud, and back up or reset your phone.
- **More**: Manage security, location services, storage, and other features of the phone.

Wi-Fi Settings

Your device supports Wi-Fi a/b/g/n. Use Wi-Fi settings to manage your device's Wi-Fi connections.

For more information about using your phone's Wi-Fi features, see *"Wi-Fi"* on page 90.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection.

For more information about using your phone's Wi-Fi Direct features, see *"Wi-Fi Direct"* on page 92

Bluetooth

Bluetooth is a short-range wireless communications technology for exchanging information over a distance of about 30 feet.

For more information about using Bluetooth to exchange information with other Bluetooth devices, see *"Bluetooth"* on page 93.

Data Usage

Monitor data usage, and control your phone's connection to mobile data service.

Note: Data is measured by your phone. Your service provider may account for data usage differently.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **Data usage** ➔ **Mobile data** to enable or disable your phone's connection to mobile data service.
   - When disabled, you will not be able to use the Internet, sync email, or use any app that requres a data connection unless you are connected to a Wi-Fi network.
3. Touch **Set mobile data limit** to disable the mobile data connection when the specified limit is reached.

View Mobile Data Usage

1. Touch the **Data usage cycle** drop-down menu and select a time period.

   A chart displays the total mobile data usage during that time period, followed by a breakdown of data usage by each application.

2. Set data usage limits:
   - Touch and drag the **red limit bar** to set the maximum data limit. When data usage reaches this limit, mobile data will be disabled.

Warning! When disabled, you will not be able to use the Internet, sync email, or use any app that requres a data connection unless you are connected to a Wi-Fi network.

   - Touch and drag the **yellow warning bar** to set a warning level. You will be notified when data usage reaches this level.
   - Touch and drag the **two white bars** to adjust the time period displayed.
   - Touch an **application** to view its data usage. Touch **Restrict background data** to force the application to sync background data only when connected to a Wi-Fi network

3. Touch **Menu** for options:
   - **Data roaming**: Allow your phone to use mobile data when roaming. Additional charges may apply. See your service plan for details.
   - **Restrict background data**: Prevent the phone from connecting to the mobile data network in the background for synchronization or other services.
   - **Auto sync data**: Synchronize with accounts automatically, at any time.
   - **Show Wi-Fi usage**: Display data usage while connected to Wi-Fi.
   - **Mobile hotspots**: Select Wi-Fi networks that are mobile hotspots. You can restrict apps from using these networks, and you can configure apps to warn you before using these networks for large downloads.

More Networks

Access additional options for configuring connections between your phone and other devices.

Airplane Mode

Enabling Airplane mode turns off calling, messaging, and data network features. It also turns off other connectivity features, such as Wi-Fi and Bluetooth.

While in airplane mode, you can use other features of your phone, such as playing music, watching videos, or other applications.

To use Wi-Fi and Bluetooth when Airplane mode is enabled, turn them on in Settings, or on the Notifications panel.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Airplane mode** to enable or disable the option.

Note: You can also set Airplane mode from the *Device options* menu. Press and hold the **Power/Lock Key**, then touch **Airplane mode**.

Mobile Networks

Set options for network selection and data service.

Important! Depending on your service plan, changes you make to mobile networks settings may incur extra charges. Consult your service provider for more information.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Connections**.
2. Touch **More networks** ➔ **Mobile networks** for options:
   - **Mobile data**: Enable or disable your device's connection to the mobile data network.
   - **Data Roaming**: Enable or disable connection to data services when your device is roaming on another network.
   - **Network mode**: Choose a preferred network mode.
   - **System select**: Change CDMA roaming mode.

Tethering and Portable Mobile Hotspot

Use feature lets you share your phone's mobile data connection via USB, Wi-Fi, or Bluetooth.

For more information about using tethering and portable mobile hotspot, For more information, refer to *"Tethering and Portable Mobile Hotspot"* on page 96..

VPN

Set up and manage Virtual Private Networks (VPNs).

For more information about connecting to VPNs on your phone, see *"VPN"* on page 99.

NFC

Use NFC (Near Field Communication) to share information between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

For more information about sharing information with NFC, see *"NFC and Beaming"* on page 99.

Android Beam

Use Android Beam to share smaller files, such as browser pages, YouTube videos, contacts, pictures, etc.

For more information on using Android Beam, see *"Android Beam"* on page 100.

S Beam

Use S Beam for sending larger files, such as HD videos, between your phone and another NFC-capable device by touching the devices together (typically back-to-back).

For more information on using S Beam, see *"S Beam"* on page 100.

Nearby Devices

Share files with nearby devices using the DLNA (Digital Living Network Alliance) standard via Wi-Fi.

To share with nearby devices, you must connect to a Wi-Fi network. The devices you wish to share files with must also be connected to the same Wi-Fi network and must support DLNA.

For more information about sharing files with nearby devices, see *"Nearby Devices"* on page 101.7

Screen Mirroring

Use the Screen Mirroring feature to share media files on your phone with an HDMI device, such as an HDMI TV.

For more information on using Screen Mirroring, see *"Screen Mirroring"* on page 102.

Kies via Wi-Fi

Use Kies via Wi-Fi to connect to the Kies program on your desktop computer. Use Samsung's Kies desktop software to transfer music, contacts, and photos, update software, and sync wirelessly with your phone.

Kies via Wi-Fi connects using your Wi-Fi network to the Kies application installed on your computer.

For more information, see *"Kies via Wi-Fi"* on page 103.

Lock Screen

Choose settings to unlock your phone.

For more information about using the lock and unlock features, see *"Securing Your Device"* on page 11.

Screen Lock

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Lock screen** ➔ **Screen lock** and select a screen lock. Then configure the displayed options for that screen lock:
   - **Swipe**: Unlock your phone by swiping your finger across the screen. This is the default screen lock, and offers no security.
     - **Multiple widgets**: Display multiple widgets on your Lock screen.
     - **Lock screen widgets**: Customize your clock and personal message.
     - **Shortcuts**: Add app shortcuts to the lock screen.
     - **Unlock effect**: Show a ripple effect or light effect on the lock screen when you slide your finger over the screen.
     - **Help text**: Show help information on the Lock screen.

– **Wake up in lock screen**: Wake up the screen by speaking a command.

– **Set wake-up command**: Set a command to wake up the screen.

- **Face unlock**: Unlock your phone by looking at the screen. This option offers low security, because someone who looks similar to you could unlock your phone. Touch the option for more information, and to set up Face unlock.
  – **Lock screen widgets**: Customize your clock and personal message.
  – **Improve facial recognition**: Have your face captured in different conditions.
  – **Presence check**: Require a blink to unlock your phone.
  – **Make pattern visible**: Display the security pattern.
  – **Lock automatically**: Automatically lock the phone when the screen has turned off after a selected amount of time.
  – **Lock instantly with power key**: Instantly lock your phone by pressing the **Power/Lock Key**.
- **Face and voice**: Unlock your phone by looking at the screen and speaking. This option offers low security, because someone who looks and/or sounds similar to you could unlock your phone. Touch the option for more information, and to set up Face and voice unlock.
  – **Lock screen widgets**: Customize your clock and personal message.
  – **Improve facial recognition**: Have your face captured in different conditions.
  – **Presence check**: Require a blink to unlock your phone.
  – **Make pattern visible**: Display the security pattern.
  – **Lock automatically**: Automatically lock the phone when the screen has turned off after a selected amount of time.
  – **Lock instantly with power key**: Instantly lock your phone by pressing the **Power/Lock Key**.

- **Pattern**: Draw a pattern on the screen to unlock your phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.
  - **Lock screen widgets**: Customize your clock and personal message.
  - **Make pattern visible**: Display the security pattern.
  - **Lock automatically**: Automatically lock the phone when the screen has turned off after a selected amount of time.
  - **Lock instantly with power key**: Instantly lock your phone by pressing the Power/Lock Key.
- **PIN**: Enter a numeric PIN (Personal Identification Number) to unlock your phone. With PIN screen lock, you can also set the *With swipe* lock and Lock screen options.
  - **Lock screen widgets**: Customize your clock and personal message.
  - **Lock automatically**: Automatically lock your phone 5 seconds after the screen turns off.
  - **Lock instantly with power key**: Instantly lock your phone by pressing the **Power/Lock Key**.
- **Password**: Enter an alphanumeric password to unlock your phone.
  - **Lock screen widgets**: Customize your clock and personal message.
  - **Lock automatically**: Automatically lock the phone when the screen has turned off after a selected amount of time.
  - **Lock instantly with power key**: Instantly lock your phone by pressing the **Power/Lock Key**.
- **None**: Disable all custom screen lock settings, to use the default swipe unlock screen.

Display Settings

Configure settings for your phone's display.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Display** for options.

Wallpaper

Customize the background of the Home and Lock screens. For more information, refer to *"Wallpaper"* on page 21.

Notification Panel

Configure options for the Notification panel, available when you swipe your finger down from Status bar at the top of the screen.

For more information, refer to *"Notification Panel"* on page 18.

Screen Mode

Choose a screen mode to match your type of viewing.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Screen mode** for options:
   - **Adapt display**: Touch the check box to enable or disable automatic optimization of the screen to match the type of image being displayed and other criteria, such as battery level.
   - When **Adapt display** is disabled, select a specific screen mode to match the content you display.

Brightness

Adjust the screen brightness to suit your surroundings, or to your personal preference.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Brightness**.
3. Touch **Automatic brightness** to allow the phone to adjust the brightness based on your surroundings.

   – or –

   To set a custom brightness level, clear the Automatic brightness checkmark and then touch and drag the **Brightness level** bar.

Auto-Rotate Screen

Allow the phone to switch the display orientation automatically when you rotate the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Auto rotate screen** to enable or disable the setting.

Screen Timeout

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Screen timeout** to choose a time period.

Daydream

The Daydream setting controls what the screen displays when the phone is docked, or while charging. You can choose to display a Colors screen, or display photos stored on your phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **ON/OFF** next to Daydream to turn the feature on, then touch **Daydream** for options:
   - **Colors**: Display screen full of colors.
   - **Flipboard**: Display pictures from Flipboard. Touch to choose pictures to display.
   - **Photo Frame**: Display pictures in a photo frame. Touch to choose pictures to display.
   - **Photo Table**: Display pictures in a photo table. Touch to choose pictures to display.
   - Touch **Start now** to preview Daydream mode. Touch the screen to cancel.
   - Touch **Select dream time** to choose when daydream displays: While docked, While charging, or All.

Font Style

Select the font style for standard display text.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Font style** to choose a font.

Tip: To find new fonts, touch **Get fonts online** to access new fonts in the Google Play Store app.

Font Size

Select the font size for standard display text.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Font size** to choose a size.

Touch Key Light Duration

Set the length of time the **Menu Key** and **Back Key** remain lit after you touch them.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Touch key light duration** to choose a time period.

Show Battery Percentage

The battery charge level displays as an icon on the Status bar by default. This option displays the battery icon plus the percentage of remaining battery charge.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Show battery percentage** to turn the option on.

Edit After Screen Capture

Set screen captures you take to be automatically opened for editing.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Edit after screen capture** to turn the option on.

Auto Adjust Screen Tone

Allow your phone to automatically analyze the screen and adjusts the brightness to conserve battery power.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Auto adjust screen tone** to turn the option on.

LED Indicator

This option allows you to turn on your LED lights for charging, missed events, and incoming notifications. The light will turn on by default unless you turn them off.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **LED indicator** for options:
   - **Charging**: The red LED lights up when you charge your device while the screen is off.
   - **Low battery**: The red LED blinks when the battery power is low while the screen is off.
   - **Notifications**: The blue LED blinks when you have missed calls, messages, or app notifications while the screen is off.
   - **Voice recording**: The blue LED blinks when you record voice while the screen is off.

Sound Settings

Configure settings for your phone's sound and audio.

Volume

Set the system volume level, and set default volume for call ringtones, notifications, and media playback.

Note: You can also set System volume from the Home screen by pressing the **Volume Key**.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Sound** ➔ **Volume**.
3. Touch and drag the sliders for:
   - **Music, video, games, and other media**: Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
   - **Ringtone**: Set the volume for incoming call ringtones.
   - **Notifications**: Set the volume for notifications, such as new messages and event reminders.
   - **System**: Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.

Ringtones

Choose a ringtone for incoming calls.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Sound** ➔ **Ringtones**.
3. Touch a ringtone to select it. As you touch a ringtone, a sample plays.
4. Touch **Add** to choose a music track from Google Music, a sound file from Dropbox, or use Sound picker to choose a song from Music player.

Tip: You can also set songs as ringtones for a selected contact. For more information, see *"Setting a Song as a Ringtone"* on page 79.

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Sound** ➔ **Vibrations**.
3. Touch a vibration pattern to select it. As you touch a pattern, a sample of the vibration occurs.
4. To create your own pattern, touch **Create**. Touch **Touch to create** and tap the screen to enter a new pattern.

Default Notification Sound

Choose a default sound to play for notifications, such as for new messages and event reminders.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Sound** ➔ **Default notification sound**.
3. Touch a sound to select it. As you touch a sound, a sample plays.

Vibrate When Ringing

When enabled, a vibration plays for calls and notifications, along with the ringtone or sound.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Sound**.
3. Touch **Vibrate when ringing** to turn the option on.

Dialing Keypad Tone

When enabled, tones play when you touch keys on the phone keypad.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Sound**.
3. Touch **Dialing keypad tone** to turn the option on.

Touch Sounds

When enabled, tones play when you touch keys on the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Sound**.
3. Touch **Touch sounds** to turn the option on.

Screen Lock Sound

When enabled, tones play when you touch the screen to lock or unlock it.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Sound**.
3. Touch **Screen lock sound** to turn the option on.

Emergency Tone

You can choose to have a tone play, or have your phone vibrate, periodically during an emergency call.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Sound**.
3. Touch **Emergency tone** to select a tone:
   - **Off**: No tone or vibration plays during emergency calls.
   - **Alert**: A tone plays during emergency calls.
   - **Vibrate**: A vibration plays during emergency calls.

Adapt Sound

Find the best sound for you during calls and media playback.

Note: This setting uses earphones to ensure the best sound during setup. You must connect optional earphones (not included) to the phone to configure this setting.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Sound** ➔ **Adapt Sound**.
3. Read the information about Adapt Sound and connect optional earphones (not included).
4. Touch **Start**, and then follow the prompts.

Home Screen Mode

Your phone offers two Home screen modes:

- **Standard mode** provides a conventional layout for apps and widgets on the Home screen.
- **Easy mode** provides an easier experience for the first-time smartphone user.

You can choose the Home screen mode at any time.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Home screen mode**.
3. Touch **Standard mode** or **Easy mode**, then touch **Apply**.

Call Settings

Configure calling options.

Call Rejection

Manage your list of phone numbers which will be automatically rejected.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Call rejection** for options:
   - **Auto reject mode**: Set how the phone responds for rejected calls. Options: Off, All numbers, or Auto reject numbers (only those numbers listed on the Auto reject list).
   - **Auto reject list**: Enter phone numbers to reject. Turn on **Unavailable** to reject calls with no caller ID. Touch **Create**, then follow the prompts to enter numbers to reject, or select them from Contacts. Touch **Match criteria** to set options for using the reject number list.

Set Up Call Rejection Messages

Create and manage text messages to send to callers when rejecting incoming calls. Messages you create here are available from the incoming call screen when you use the *Reject with message* option.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Set up call rejection messages**.
3. Manage messages:
   - To create new messages, touch **Create**, then follow the prompts.
   - To modify an existing message, touch the message and edit the text.

Answering/Ending Calls

Manage settings for answering and ending calls.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Call** ➔ **Answering/ending calls**.
3. Configure options:
   - **The home key answers calls**: Answer an incoming call by pressing the **Home Key**.
   - **Voice control**: Answer calls by speaking commands. When enabled, you can answer or reject calls with the voice commands “Answer” and “Reject.” When you answer a call with a voice command, the speaker will automatically turn on for hands-free calls.
   - **The power key ends calls**: End a call by pressing the **Power/Lock Key**. In this case, pressing the Power/Lock Key during a call will not lock the screen.

Turn Off Screen During Calls

When enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the device is used to turn the screen back on when the device is moved or brought close to another surface, such as when you move the phone to your ear.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Call**.
3. Touch **Turn off screen during calls** to enable or disable the feature.

Call Alerts

Set options for sounds and vibrations to occur during calls.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Call alerts**.
3. Configure options:
   - **Vibrate on connection to network**: Vibrate the phone when a call connects to the network.
   - **Call-end vibration**: Vibrate the phone when the other caller ends the call.
   - **Call connect tone**: Play a tone when the person you called answers .
   - **Minute minder**: Play once per minute during a call.
   - **Call end tone**: Play a tone when the other caller ends the call.
   - **Alerts on call**: Play notifications for alarms and new messages play during calls.

Call Accessories

Configure options for using a headset (not included).

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Call accessories**.
3. Configure settings:
   - **Automatic answering**: When a headset is connected, incoming calls are answered automatically after a delay (set with the *Automatic answering timer* setting).
   - **Automatic answering timer**: Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the device.
   - **Outgoing call conditions**: When a Bluetooth headset is connected, allow calls to be made even when the device is locked.

Ringtones and Keypad Tones

Choose tones and vibration to use for incoming calls and keypad touches.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Ringtones and keypad tones**.
3. Configure settings:
   - **Ringtones**: Choose a default ringtone for incoming calls.
   - **Vibrations**: Choose a vibration pattern, or create your own pattern, to occur when *Vibrate when ringing* is turned on.
   - **Vibrate when ringing**: Enable vibrations to occur with incoming calls.
   - **Keypad tones**: Play tones when you touch the phone keypad.

Personalize Call Sound

Choose options for call audio, in cases where you might need the sound softer or more clear, or optimized for your right or left ear.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call** ➔ **Personalize call sound**.
3. Touch **In-call sound EQ** to configure options:
   - **Off**: Use the default call sound settings.
   - **Soft sound**: Use softer sounds during calls.
   - **Clear sound**: Use clearer sounds during calls.
   - **Adapt Sound left**: Optimize audio for the left headphone speaker.
   - **Adapt Sound right**: Optimize audio for the right headphone speaker.
4. Touch **Adapt sound** and follow the onscreen prompts to find the best sound for you.

Noise Reduction

Set the phone to suppress background noise during calls.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **Noise reduction** to enable the feature.

Increase Volume in Pocket

When enabled, the device uses the proximity sensor to detect when the device is in a pocket or other close-fitting location such as a purse or bag, and increases the volume for incoming call ringtones.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **Increase volume in pocket** to enable the feature.

Voicemail

Configure options for voicemail.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Configure options:
   - **Voicemail service**: By default, your device uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.
   - **Voicemail settings**: By default, the speed dial for calling voicemail for your service provider is *86 (*VM). If you wish to use another speed dial, touch Voicemail number to set a new one.
   - **Sound**: Choose a default ringtone for new voicemail.
   - **Vibrate**: Set a vibration to occur for new voicemail.

Auto Retry

Enable Auto retry to automatically redial the phone number until it is connected.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **Auto Retry** to automatcially redial a call if it receives a busy signal from the network.

TTY Mode

A TTY (teletypewriter, also known as a TDD or Text Telephone) is a telecommunications device that allows people who are deaf, hard of hearing, or who have speech or language disabilities, to communicate by telephone.

Your phone is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it supports digital wireless transmission.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **TTY mode** to choose a mode: TTY Off, TTY Full, TTY HCO, or TTY VCO.

Hearing Aids

Impove the sound quality of your phone for use with hearing aids.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **Hearing aids** to enable the feature.

DTMF Tones

Set the length of Dual-Tone Multi-Frequency tones which play when you use the keypad during a call, such as when navigating device menus.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **DTMF tones** to select a tone length.

Voice Privacy

Enhanced voice privacy to improve the security of your phone calls.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Call**.
3. Touch **Voice privacy** to enable the feature.

Blocking Mode

When Blocking mode is enabled, notifications for selected features are blocked, and you only receive the notifications you choose. You can choose to block notifications by feature or contact, and choose blocking all the time, or during a specific time period.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **ON/OFF** next to Blocking mode to enable or disable the setting.
3. Touch **Blocking mode** for options:
   - **Block incoming calls**: Notifications for incoming calls will not be displayed.
   - **Turn off notifications**: Notifications for new messages will not be displayed.
   - **Turn off alarm and timer**: Notifications for alarms and timers will not be displayed.
   - **Turn off LED indicator**: The LED indicator will not light up.

4. Set a time period for Blocking mode:
   - **Always**: Block notifications at all times.
   - To set a specific time period to block notifications each day, disable the Always option, and then set a starting time (**From** field) and ending time (**To** field).
5. Set up Allowed contacts (contacts whose notifications will not be blocked):
   - Touch **Allowed contacts**, and then choose an option:
     - **None**: Block notifications from all contacts.
     - **All contacts**: Allow notifications from any contact.
     - **Favorites**: Only allow notifications from contacts tagged as favorites.
     - **Custom**: Allow notifications from contacts you specify. Create a list of allowed contacts by touching **Add** and selecting contacts.
   - Touch **Allowed contacts list** to view your custom list of allowed contacts.

Hands-Free Mode

When enabled, alarm and scheduled alarm information is read aloud.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **ON/OFF** next to Hands-free mode to enable or disable the setting.
3. Touch **Hands-free mode** for options:
   - **Incoming call**: Read out callers' information when receiving incoming calls.
   - **Message**: Read out senders' information when new messages arrive.
   - **Alarm**: Read out alarm information when alarms sound.
   - **Schedule**: Read out scheduled alarm information when alarms sound.

Power Saving Mode

Configure Power saving mode settings to conserve battery power.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **ON/OFF** next to Power saving mode to enable or disable the setting.
3. Touch **Power saving mode** for options:
   - **CPU power saving**: Limit the maximum performance of the CPU (Central Processing Unit). This does not affect normal usage, such as browsing and video playback.
   - **Screen power saving**: Use low power level for the screen.

Note: Touch **Learn about power saving mode** for more information.

Accessory Settings

Configure your phone's behavior when it is connected to an optional dock (not included).

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Accessory** for options:
   - **Dock sound**: Play a sound when you insert and remove the phone from the dock.
   - **Audio output mode**: Play audio through the dock speakers when the phone is docked.
   - **Desk home screen display**: Display the desk home screen when the phone is docked.
   - **Automatic unlock**: Flip the S View cover open to unlock the screen when the secure lock is disabled and the phone is docked.

Accessibility Settings

Your phone offers features to make using the phone easier for those with certain physical disabilities. Use the Accessibility settings to configure these features.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Accessibility** for options:
   - **Auto rotate screen**: Enable automatic rotation of the screen when you rotate the phone.
   - **Screen timeout**: Set a period of time for the screen to remain lit-after which it will dim and lock.
   - **Lock automatically**: Lock the screen in 5 seconds after screen automatically turns off. (This option appears only when a screen lock is enabled.)
   - **Speak passwords**: Read aloud password information.
   - **Answering/ending calls**: Accept calls by pressing the Home Key or end calls by pressing the **Power/Lock Key**.
   - **Show shortcut**: Display a shortcut to Accessibility settings on the Device options menu. (The Device options menu displays when you press and hold the **Power/Lock Key**.)
   - **Manage accessibility**: Choose settings for exporting, updating, and sharing the accessibility settings as a file.
   - **TalkBack**: Activate the TalkBack feature and configure options.
   - **Font size**: Change the size of the fonts used on the screen.
   - **Magnification gestures**: Control whether your phone recognizes gestures to pan, and zoom in or out.
   - **Negative colors**: Reverse the display of on-screen colors from White text on a Black background to Black text on a White background.
   - **Color adjustment**: Adjust the color of the screen if you are color blind or have difficulty reading the display because of the screen color. Touch **ON/OFF** to turn color adjustment on, then touch Color adjustment for options.
   - **Accessibility shortcut**: Control whether your phone recognizes a gesture to quickly enable accessibility features. To use the gesture, press and hold the **Power/Lock Key** until you hear a sound or feel a vibration, then touch and hold two fingers on the screen until you hear an audio confirmation.

- **Text-to-speech options**: Configure options for converting text to speech. For more information, see *"Text-To-Speech Options"* on page 133.
- **Enhance web accessibility**: Choose whether to allow apps to install scripts from Google that make their Web content more accessible.
- **Sound balance**: Control the signal sent to the left and right when using earphones.
- **Mono audio**: Enable stereo audio to be compressed into a single mono audio stream for use with a single earphone.
- **Turn off all sounds**: Mute every sound made by the phone during touchs, selections, notifications, etc.
- **Hearing aids**: Turn on hearing aid compatibility.
- **Flash notification**: Set the camera flash to blink when notifications occur.
- **Assistant menu**: Display a special menu to improve phone accessibility for users with reduced dexterity. Touch **ON/OFF**, then touch **Assistant menu** for options.
  - **Dominant hand**: Display the Assistant menu on the left or right side of the screen.
  - **Edit**: Reorder or remove items on the Assistant menu.
- **Touch and hold delay**: Select a time interval for using the Touch and hold gesture.
- **Interaction control**: Adjust how your phone interprets motions and screen touches. You can turn motions and screen timeout on or off. You can also block areas of the screen from touch interaction, turn Auto rotate and hard key functions (Power/Lock Key, Volume Key, etc.) off, and display app notifications only on the Notification panel and Status bar. Touch **ON/OFF**, then touch **Interactive control** for options.

Language and Input

Use Language and input settings to choose a default language for your phone's operations, plus settings for text entry and other inputs.

Default Language

Choose the default language for operating your phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Language and input** ➔ **Language** to select a default language.

Default Input Method

Select default input method you will use when accessing the keyboard.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Language and input** ➔ **Default** to select Samsung keyboard or Swype.

Google Voice Typing Settings

Google voice typing allows you to speak your entries. When you enable Google voice typing, it's available for use when you touch a field to enter text.

For more information, see *"Using Google Voice Typing"* on page 27.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Language and input**.
3. Touch the **Google voice typing** check box to enable it.
4. Touch beside **Google voice typing** for options:
   - **Choose input languages**: Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
   - **Block offensive words**: Hide words many people find offensive are in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
   - **Download offline speech recognition**: Download and install speech recognition engines, to allow you to use voice input while not connected to the network, such as during Airplane mode.

Samsung Keyboard

The Samsung Keyboard is an on-screen QWERTY keyboard, so you can enter text by "typing" on the keyboard. Samsung keyboard is enabled by default.

For more information, see *"Using Samsung Keyboard"* on page 26.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Language and input**.
3. **Samsung keyboard** is enabled by default. Touch to configure options:
   - **Alphabets**: Choose a keyboard configuration to be used when entering letters (Qwerty keyboard [default] or 3x4 keyboard).
   - **Numbers and symbols**: Choose the default keypad when the screen is in portrait mode: QWERTY or 3x4 keyboard (similar to a phone keypad).
   - **Input language**: Choose language(s) for use with Samsung keyboard. When you have more than one language enabled, you can slide your finger on the space bar while entering text to switch languages.
   - **Predictive text**: Touch **ON/OFF** to enable predictive text. Predictive text suggests words matching your text entries, and optionally, complete common words automatically. Touch **Predictive text** to configure options:
     - **Personalized data**: When enabled, predictive text uses personal language data you have entered to make better predictions. Samsung keyboard can collect all the text you enter, including personal data and credit card numbers, in order to give better prediction results.
     - **Learn from Facebook**: Log into Facebook to allow your phone to learn from your Facebook postings.
     - **Learn from Gmail**: Log into Gmail to allow your phone to learn from your Gmail email.
     - **Learn from Twitter**: Log into Twitter to allow your phone to learn from your Twitter postings.
     - **Learn from Messages**: Allow your phone to learn from your text and multimedia messages.
     - **Learn from Contacts**: Allow your phone to learn from your Contacts entries.
     - **Clear remote data**: Delete your information stored on the personalization server.

- **Clear personal data**: Remove all personalized data you have entered.
- **Privacy**: Read the privacy policy.

- **SwiftKey flow**: Enter text by sliding your finger across the keys on the keyboard.
- **Cursor control**: Slide your finger across the keyboard to move the cursor to begin entering text.
- **Key-tap sound**: Play a sound when a key is touched.
- **Advanced**:
  - **Auto capitalization**: Automatically capitalize words in your text based on common usage, such as at the beginning of sentences.
  - **Auto spacing**: Automatically inserts spaces between words.
  - **Auto punctuate**: Automatically enter a period and space to end a sentence when you touch the space bar twice.
  - **Character preview**: Display the character in a bubble when you touch it on the keyboard.
- **Help**: Learn about Samsung Keyboard.
- **Reset setting**: Return settings to the defaults.

Swype

Swype lets you enter text by sliding your finger between letters to spell out a word. For each word, place your finger on the first letter and slide to the subsequent letters, lifting on the last letter.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Language and input**.
3. Swype is enabled by default. Touch to configure:
   - **Settings**: Set Swype options:
     - **Sound on keypress**: Play sounds for your key touches.
     - **Pop-up on keypress**: Characters display above keys as you enter text.
     - **Show complete trace**: Display the trace of each word until you start the next word.
     - **Auto-capitalization**: Automatically capitalize the first word of sentences.
     - **Auto-spacing**: Automatically insert spaces between words as you complete them.
     - **Next word prediction**: Let Swype predict the next word based on the previous word.
     - **Show Voice key**: Display a voice entry button on the keyboard.

- **My Words**: View and manage words in your Swype dictionary, used for word completion, suggestions, and spellchecking.
- **Languages**: Choose the current language for Swype, and download additional languages.
- **Gestures**: Learn about shortcuts you can use on the keyboard to quickly accomplish common tasks.
- **Help**: Learn about using Swype.
- **Updates**: Check for updates to Swype.

Voice Search Settings

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Language and input** ➔ **Voice search** for options:
   - **Language**: Choose a language for voice searching.
   - **Speech output**: Set whether search results use speech output Always, Informative only, or Hands-free mode only.
   - **Block offensive words**: Hide words many people find offensive from the results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
   - **Hotword detection**: Launch a voice search by saying the word "Google."
   - **Download offline speech recognition**: Install a language module for offline speech recognition.
   - **Personalized recognition**: Allow your phone to improve recognition based on your speech. (This option is only available when you are signed in to a Google Account.)
   - **Google Account dashboard**: View and manage your collected data.(This option is only available when you are signed in to a Google Account.)
   - **Bluetooth headset**: Record audio through an optional Bluetooth headset (not included).

Text-To-Speech Options

Text-to-speech (TTS) provides audible readout of text, such as the contents of text messages.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Language and input** ➔ **Text-to-speech options** for options:
   - **Preferred TTS engine**
     - Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine** as your default TTS engine. Touch to configure.
   - **General**
     - **Speech rate**: Choose a speed at which the text is spoken.
     - **Listen to an example**: Play a sample of speech synthesis.

Mouse/Trackpad

This option sets the pointer speed for an externally connected mouse or trackpad (not included).

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Language and input** ➔ **Pointer speed**.
3. Touch and drag along the scale to set the pointer speed.

Motions and Gestures

Configure various motion and gestures features.

Motion

Control your phone with natural hand movements, such as putting the phone to your ear to call a displayed contact.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **Motions and gestures** ➔ **Motion**, then touch **ON/OFF** to enable each feature:
   - **Direct call**: Lift the phone to your ear while viewing a contact to call the contact.
   - **Smart alert**: Lift the phone to receive notifications of missed calls and notifications that occurred while the phone was stationary.
   - **Zoom**: Tilt the phone to zoom in or out when viewing pictures in Gallery.
   - **Move an icon**: Move the phone left or right while touching an icon to reposition it to another page.
   - **Browse an image**: Move the phone in a side-to-side motion to pan from side to side while viewing an image.
   - **Mute/pause**: Mute incoming calls and pause playback by turning the phone screen-side down.

Palm Motion

Control the phone by touching the screen with the palm of your hand.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Motions and gestures** ➔ **Palm motion**, then touch **ON/OFF** to enable the feature:
   - **Mute/pause**: Mute incoming calls and pause playback by covering the screen with your hand.

Gyroscope Calibration

Control the phone by touching the screen with the palm of your hand.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Motions and gestures** ➔ **Gyroscope calibration** and follow the instructions to calibrate your phone's motion sensors.

Smart Screen

Smart screen features use the front camera to detect when you are facing the screen. Some factors that may affect the ability of the front camera to detect your face are:

- When the phone is not docked or held upright, for example when placed on a table.
- When the front camera cannot detect your face and eyes.
- When the front camera is being used for the current application.
- When the source of light is behind you, or when using the phone in the dark.

Smart stay allows your phone to automatically adjust the screen timeout when it detects you are looking at the screen.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **My device**.
2. Touch **Smart screen** ➔ **Smart stay** to enable the feature.

Tip: Touch **Menu** ➔ **Help** to learn more about Smart screen.

Voice Control

Use voice commands to control functions of your phone.

Note: If you set the alert type for calls or notifications to vibrate, voice command is not available.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ My device.
2. Touch **OFF/ON** next to Voice control to enable/disable the feature.
3. Touch **Voice control** for options:
   - **Incoming calls**: Answer or reject calls with the voice commands “Answer” and “Reject.” When you answer a call with the voice command, the speaker will automatically be turned on for hands-free talking.
   - **Alarm**: Stop or snooze alarms with the voice commands “Stop” and “Snooze.”
   - **Camera**: Take pictures with the voice commands “Smile”, “Cheese”, “Capture”, and “Shoot.”
   - **Music**: Control the Music app with the voice commands “Next”, “Previous”, “Pause”, “Play,”, “Volume Up”, and “Volume Down.”

Add an Account

Add an account to your phone to share information between your phone and the account.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ Accounts.
2. Touch **Add account** and select an account type. Follow the prompts to enter your credentials and set up the account on your device.

For more information about managing applications, see *“Accounts”* on page 29.

Cloud

Configure options for synchronizing and backing up your data using online storage.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ Accounts.
2. Touch Cloud.
3. Sign **Add account** to sign in to your Samsung Account or create a new account. You can sync Contacts, Calendar, Memo, and Internet data. You can back up logs, text messages, multimedia messages, and current wallpaper settings.
4. Touch **Link Dropbox account** to sign in to your Dropbox account, or set up a new account, to sync pictures, videos and documents.

Backup and Reset

Back up application data, Wi-Fi passwords, and other settings to Google servers.

Backup Your Data

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ Accounts.
2. Touch **Backup and reset** ➔ **Back up my data** to enable automatic back up of your data to a Google Account.
3. Touch **Backup account** to set up a Google Account for backups. You can create a new Google Account, or sign in to an existing account.
4. Touch **Automatic restore** to restore an app's settings and other information from the backup (if available) when you reinstall that app.

Factory Data Reset

Reset all settings to the factory defaults, and permanently delete all data from the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **Accounts**.
2. Touch **Backup and reset** ➔ **Factory data reset** ➔ **Reset device**.
3. Follow the promts to perform the reset.

Location Services

These settings allow you to configure how the phone determines its location.

Note: Some apps may require one or more location services be turned on for full functionality.

GPS signals may be affected by your surroundings, including:

- Buildings
- Tunnels or underground structures
- Weather conditions
- High-voltage or electromagnetic fields
- Tinted windows

Note: E911 location service is standard on all mobile phones, to allow sharing of GPS information with emergency personnel when you make a call to emergency services, such as 911.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Location services** for options:
   - Touch **Access to my location** to allow apps to use your location information.
     - When enabled, you are allowing Google's location service to collect anonymous location data. Some data may be stored on your phone, and collection may occur even when no apps are running.
   - **Use GPS satellites**: Obtain location information from GPS satellites.
   - **Use wireless networks**: Obtain location information from Wi-Fi and/or mobile networks.
   - **My places**: Save your favorite locations for use with services that require location information.
     - Touch **Home**, **Office**, or **Car**, and follow the prompts to configure options for identifying the location.
     - Tap + to set up a different location.

Security Settings

Configure options for securing information on your phone.

Encryption

You can encrypt accounts, settings, downloaded apps and their data, media, and other files. After encryption, you must enter the PIN or password you set each time you turn on your phone. You can also encrypt information stored on an optional installed memory card (not included).

Encryption may take an hour or more to complete. Start with a charged battery, and keep the phone on the charger until encryption is complete. Interrupting the encryption process may result in the loss of some or all data.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Security**, and then touch an option:
   - **Encrypt device**: Touch **Set screen lock type** to start, and then follow the prompts to encrypt information.
   - **Encrypt external SD card**: Touch **Set screen lock type** to start, and then follow the prompts to encrypt information.

Make Passwords Visible

When enabled, password characters display briefly as you enter them.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Security** ➔ **Make passwords visible** to turn the option on.

Device Administration

Some applications, such as Corporate email, may require you allow access to your phone by device administrators in certain circumstances, such as if your phone is lost or stolen.

Some features a device administrator might control include:

- Setting the number of failed password attempts before the device is restored to factory settings
- Automatically locking the device.
- Restoring factory settings on the device.

Device Administrators

View, add or remove device administrators.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Security** ➔ **Device administrators**, and then touch the agent(s) to use.

Unknown Sources

Allow applications from sources other than the Google Play Store to be installed on the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Security** ➔ **Unknown sources** to turn the option on.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

Verify Apps

Block or display a warning before installing apps that might cause harm to the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **More**.
2. Touch **Security** ➔ **Verify apps** to turn the option on.

Credential Storage

You can install credentials from an optional installed memory card (not included), and use the Credential storage settings to allow applications to access the security certificates and other credentials.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **More**.
2. Touch **Security**.
3. Touch **Trusted credentials** to view installed certificates.
4. Touch **Install from device storage** and choose a certificate and follow the prompts to install.
5. Touch **Clear credentials** and follow the prompts to clear stored credentials and reset the password.

Application Manager

You can download and install applications from the Google Play Store or Samsung Apps, or create applications using the Android SDK and install them on your phone. Use Application manager to manage applications on your phone.

Warning! Because this device can be configured with system software not provided by or supported by Google or any other company, end-users operate these devices at their own risk.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **More**.
2. Touch **Application manager**.
3. Touch **DOWNLOADED**, **SD CARD**, **RUNNING**, or **ALL** to view the status of applications and services. Touch an app or service for more information and for app options, such as stopping or uninstalling.

Battery

View what is using battery power.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Battery** to view battery usage for apps and services. Touch an item for more information, or to configure options for managing power use.

Storage

Manage the use of memory resources in your phone's memory and on an optional memory card (not included).

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Storage** to view information about memory usage and options:
   - **Device memory**: View memory usage for the different types of information stored on your phone's memory. Touch an item for more information.
   - **SD card**: View total space and available space on an optional memory card (not included).

Memory Card

Your device supports optional microSD or microSDHC memory cards of up to 64GB capacity (not included), for storage of music, pictures, and other files.

Install a Memory Card

For information on installing a memory card, see *"Install a Memory Card"* on page 8

Remove a Memory Card

Important! To prevent damage to data stored on the memory card, always unmount the card before removing it from the phone.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **Storage** ➔ **Unmount SD card**.
3. At the prompt, read the warning and select **OK** to continue. Wait for **SD card safe to remove** to appear in the Status bar.
4. Remove the back cover, then remove the battery.
5. Slide the memory card out from its slot.
6. Replace the battery and back cover.

Format a Memory Card

Use the Format SD card setting to remove all data from an installed memory card.

Important! Data cannot be recovered after formatting.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **More**.
2. Touch **Storage** ➔ **Format SD card**, then follow the prompts to confirm the deletion of data from the card.

Date and Time

By default, your phone receives date and time information from the wireless network. When you are outside network coverage, you may want to set date and time information manually using the Date and time settings.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ **More**.
2. Touch **Date and time**.
3. Touch a setting to configure:
   - **Automatic date and time**: When enabled, the phone takes date and time updates from the wireless network.
   - **Set date**: Enter the current date (only available when Automatic date and time is disabled).
   - **Set time**: Enter the current time (only available when the Automatic setting is disabled).
   - **Automatic time zone**: When enabled, the phone takes the time zone from the wireless network.
   - **Select time zone**: Choose your local time zone (only available when the Automatic setting is disabled).
   - **Use 24-hour format**: Set the format for time displays.
   - **Select date format**: Set the format for date displays.

About Phone

View information about your phone, including status, legal information, hardware and software versions, and a tutorial.

1. From the Home screen, touch **Apps** ➔ **Settings** ➔ More.
2. Touch **About phone**.
3. Touch a setting to view details:
   - **Software update**: Check availability and install updates.
   - **Status**: View information about your phone's current status.
   - **Legal information**: Display open source licenses, Google legal information, and Samsung legal information.
   - **Device name**: View your phone's name. Touch to change the phone's name.
   - **Model number**: View your phone's model number.
   - **Android version**: View the firmware version of your phone.
   - **Baseband version**: View the baseband version of your phone.
   - **Kernel version**: View the kernel version of your phone.
   - **Build number**: View the build number of your phone.
   - **SELinux status**: View the status of SELinux.
   - **Secure boot status**: View your phone's secure boot status.
   - **Hardware version**: View the hardware version of your phone.

This device is capable of operating in Wi-Fi mode in the 2.4 and 5 GHz bands. The FCC requires that devices operating within 5.15-5.25 GHz may only be used indoors, not outside, in order to avoid interference with Mobile Satellite Services (MSS). Therefore, do not use this device outside as a Wi-Fi hotspot or in Wi-Fi Direct mode outside when using the 5.15-5.25 GHz band.

This section outlines the safety precautions associated with using your phone. The terms “mobile device” or “cell phone” are used in this section to refer to your phone. **Read this information before using your mobile device**.

Exposure to Radio Frequency (RF) Signals

The U.S. Food and Drug Administration (FDA) has published information for consumers relating to Radio Frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

Do cell phones pose a health hazard?

Many people are concerned that cell phone radiation will cause cancer or other serious health hazards. The weight of scientific evidence has not linked cell phones with any health problems.

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

The low levels of RF cell phones emit while in use are in the microwave frequency range. They also emit RF at substantially reduced time intervals when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects.

The biological effects of radio frequency energy should not be confused with the effects from other types of electromagnetic energy.

Very high levels of electromagnetic energy, such as is found in X-rays and gamma rays, can ionize biological tissues. Ionization is a process where electrons are stripped away from their normal locations in atoms and molecules. It can permanently damage biological tissues including DNA, the genetic material.

The energy levels associated with radio frequency energy, including both radio waves and microwaves, are not great enough to cause ionization of atoms and molecules. Therefore, RF energy is a type of non-ionizing radiation. Other types of non-ionizing radiation include visible light, infrared radiation (heat), and other forms of electromagnetic radiation with relatively low frequencies.

While RF energy does not ionize particles, large amounts can increase body temperatures and cause tissue damage. Two areas of the body, the eyes and the testes, are particularly vulnerable to RF heating because there is relatively little blood flow in them to carry away excess heat.

Research Results to Date: Is there a connection between RF and certain health problems?

The results of most studies conducted to date say no. In addition, attempts to replicate and confirm the few studies that have shown a connection have failed.

The scientific community at large therefore believes that the weight of scientific evidence does not show an association between exposure to Radio Frequency (RF) from cell phones and adverse health outcomes. Still the scientific community has supported additional research to address gaps in knowledge. Some of these studies are described below.

Interphone Study

Interphone is a large international study designed to determine whether cell phones increase the risk of head and neck cancer. A report published in the International Journal of Epidemiology (June, 2010) compared cell phone usage for more than 5,000 people with brain tumors (glioma and meningioma) and a similar number of healthy controls.

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

Interphone is the largest cell phone study to date, but it did not answer all questions about cell phone safety. Additional research is being conducted around the world, and the FDA continues to monitor developments in this field.

International Cohort Study on Mobile Phone Users (COSMOS)

The COSMOS study aims to conduct long-term health monitoring of a large group of people to determine if there are any health issues linked to long-term exposure to radio frequency energy from cell phone use. The COSMOS study will follow approximately 300,000 adult cell phone users in Europe for 20 to 30 years. Additional information about the COSMOS study can be found at http://www.ukcosmos.org/index.html.

Risk of Brain Cancer from Exposure to Radio Frequency Fields in Childhood and Adolescence (MOBI-KIDS)

MOBI-KIDS is an international study investigating the relationship between exposure to radio frequency energy from communication technologies including cell phones and brain cancer in young people. This is an international multi-center study involving 14 European and non-European countries. Additional information about MOBI-KIDS can be found at http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute

The National Cancer Institute (NCI) actively follows cancer statistics in the United States to detect any change in rates of new cases for brain cancer. If cell phones play a role in risk for brain cancer, rates should go up, because heavy cell phone use has been common for quite some time in the U.S. Between 1987 and 2005, the overall age-adjusted incidence of brain cancer did not increase. Additional information about SEER can be found at http://seer.cancer.gov/.

Cell Phone Industry Actions

Although the existing scientific data do not justify FDA regulatory actions, the FDA has urged the cell phone industry to take a number of steps, including the following:

- Support-needed research on possible biological effects of RF for the type of signal emitted by cell phones;
- Design cell phones in a way that minimizes any RF exposure to the user; and

- Cooperate in providing users of cell phones with the current information on cell phone use and human health concerns.

The FDA also is working with voluntary standard-setting bodies such as the Institute of Electrical and Electronics Engineers (IEEE), the International Commission on Non-Ionizing Radiation Protection (ICNIRP), and others to assure that safety standards continue to adequately protect the public.

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

If there is a risk from being exposed to radio frequency energy (RF) from cell phones - and at this point we do not know that there is - it is probably very small. But, if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your RF exposure.

- Reduce the amount of time spent using your cell phone;
- Use speaker mode or a headset to place more distance between your head and the cell phone.

Hands-Free Kits

Hands-free kits may include audio or Bluetooth® headsets and various types of body-worn accessories such as belt-clips and holsters. Combinations of these can be used to reduce RF energy absorption from cell phones.

Headsets can substantially reduce exposure because the phone is held away from the head in the user's hand or in approved body-worn accessories. Cell phones marketed in the U.S. are required to meet RF exposure compliance requirements when used against the head and against the body.

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used for convenience and comfort. They are also required by law in many states if you want to use your phone while driving.

Cell Phone Accessories that Claim to Shield the Head from RF Radiation

Because there are no known risks from exposure to RF emissions from cell phones, there is no reason to believe that accessories which claim to shield the head from those emissions reduce risks. Some products that claim to shield

the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone.

Studies have shown that these products generally do not work as advertised. Unlike “hands-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption.

Children and Cell Phones

The scientific evidence does not show a danger to any users of cell phones from RF exposure, including children and teenagers. The steps adults can take to reduce RF exposure apply to children and teenagers as well.

- Reduce the amount of time spent on the cell phone;
- Use speaker mode or a headset to place more distance between the head and the cell phone.

Some groups sponsored by other national governments have advised that children be discouraged from using cell phones at all. For example, The Stewart Report from the United Kingdom made such a recommendation in December 2000. In this report, a group of independent experts noted that no evidence exists that using a cell phone causes brain tumors or other ill effects. Their recommendation to limit cell phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations (updated 10/1/2010):

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/.
- Environmental Protection Agency (EPA): http://www.epa.gov/radtown/wireless-tech.html.
- Occupational Safety and Health Administration (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/. (Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/.
- World Health Organization (WHO): http://www.who.int/peh-emf/en/.
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de.
- Health Protection Agency: http://www.hpa.org.uk/Topics/Radiation/.

- US Food and Drug Administration: http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm.

Specific Absorption Rate (SAR) Certification Information

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for Radio Frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. Government.

These FCC RF exposure limits are derived from the recommendations of two expert organizations: the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The RF exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

The FCC SAR limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum reported value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output of the phone.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been tested and meets

FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHR890 [Model Number: SCH-R890] and the specific SAR levels for this mobile phone can be found at the following FCC website:http://www.fcc.gov/oet/ea/.

The SAR information for this device can also be found on Samsung's website: http://www.samsung.com/sar.

SAR information on this and other model phones can be accessed online on the FCC's website through http://transition.fcc.gov/oet/rfsafety/sar.html. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional SAR information can also be obtained at http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones.

FCC Part 15 Information to User

Pursuant to part 15.21 of the FCC Rules, you are cautioned that changes or modifications not expressly approved by Samsung could void your authority to operate the device.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Commercial Mobile Alerting System (CMAS)

This device is designed to receive wireless emergency alerts from the Commercial Mobile Alerting System ("CMAS"; which may also be known as the Personal Localized Alerting Network ("PLAN")). If your wireless provider has chosen to participate in CMAS/PLAN, alerts are available while in the provider's coverage area. If you travel outside your provider's coverage area, wireless emergency alerts may not be available. For more information, please contact your wireless provider.

Smart Practices While Driving

On the Road - Off the Phone

The primary responsibility of every driver is the safe operation of his or her vehicle.

Responsible drivers understand that no secondary task should be performed while driving whether it be eating, drinking, talking to passengers, or talking on a mobile phone - unless the driver has assessed the driving conditions and is confident that the secondary task will not interfere with their primary responsibility. **Do not engage in any activity while driving a moving vehicle which may cause you to take your eyes off the road or become so absorbed in the activity that your ability to concentrate on the act of driving becomes impaired**. Samsung is committed to promoting responsible driving and giving drivers the tools they need to understand and address distractions.

Check the laws and regulations on the use of mobile devices and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas. For example, only hands-free use may be permitted in certain areas.

Before answering calls, consider your circumstances. Let the call go to voicemail when driving conditions require. Remember, driving comes first, not the call!

If you consider a call necessary and appropriate, follow these tips:

- Use a hands-free device;
- Secure your phone within easy reach;
- Place calls when you are not moving;
- Plan calls when your car will be stationary;
- Do not engage in stressful or emotional conversations;
- Let the person with whom you are speaking know that you are driving and will suspend the call if necessary;
- Do not take notes or look up phone numbers while driving;

Notice regarding legal restrictions on mounting this device in an automobile:

Laws in some states may prohibit mounting this device on or near the windshield of an automobile. In other states, the law may permit mounting this device only in specific locations in the automobile. Be sure to consult the state and local laws or ordinances where you drive before mounting this device in an automobile. Failure to comply with these restrictions could result in fines, penalties, or other damages.

Never mount this device in a manner that will obstruct the driver's clear view of the street and traffic.

Never use wireless data services such as text messaging, Web browsing, or e-mail while operating a vehicle.

Never watch videos, such as a movie or clip, or play video games while operating a vehicle.

For more information, go to http://www.ctia.org.

Battery Use and Safety

Important! Handle and store batteries properly to avoid injury or damage. Most battery issues arise from improper handling of batteries and, particularly, from the continued use of damaged batteries.

- **Do not disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery**. Do not put a high degree of pressure on the battery. This can cause leakage or an internal short-circuit, resulting in overheating.

- **Do not let the phone or battery come in contact with liquids.** Liquids can get into the phone's circuits, leading to corrosion. Even when the phone appears to be dry and appears to operate normally, the circuitry could slowly corrode and pose a safety hazard. If the phone and/or battery get wet, have them checked by your service provider or contact Samsung, even if they appear to be working properly.
- **Do not place your battery in or near a heat source**. Excessive heating can damage the phone or the battery and could cause the phone or the battery to explode. Do not dry a wet or damp battery with an appliance or heat source such as a microwave oven, hair dryer, iron, or radiator. Avoid leaving your phone in your car in high temperatures.
- **Do not dispose of the phone or the battery in a fire**. The phone or the battery may explode when overheated.
- **Do not handle a damaged or leaking battery**. Do not let leaking battery fluid come in contact with your eyes, skin or clothing. For safe disposal options, contact your nearest Samsung-authorized service center.
- **Avoid dropping the cell phone**. Dropping the phone or the battery, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- **Never use any charger or battery that is damaged in any way**.
- **Do not allow the battery to touch metal objects**. Accidental short-circuiting can occur when a metallic object (coin, key, jewelry, clip, or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.

Important! Use only Samsung-approved batteries, and recharge your battery only with Samsung-approved chargers which are specifically designed for your phone.

WARNING!

Use of a non-Samsung-approved battery or charger may present a risk of fire, explosion, leakage, or other hazard. Samsung's warranty does not cover damage to the phone caused by non-Samsung-approved batteries and/or chargers.

- **Do not use incompatible cell phone batteries and chargers**. Some websites and second-hand dealers not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier-recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.
- **Misuse or use of incompatible phones, batteries, and charging devices could result in damage to the equipment and a possible risk of fire, explosion, or leakage, leading to serious injuries, damages to your phone, or other serious hazard**.

Samsung Mobile Products and Recycling

Samsung cares for the environment and encourages its customers to recycle Samsung mobile devices and genuine Samsung accessories.

Proper disposal of your mobile device and its battery is not only important for safety, it benefits the environment. Batteries must be recycled or disposed of properly.

Recycling programs for your mobile device, batteries, and accessories may not be available in your area.

We've made it easy for you to recycle your old Samsung mobile device by working with respected take-back companies in every state in the country.

Drop It Off

You can drop off your Samsung-branded mobile device and batteries for recycling at one of our numerous Samsung Recycling Direct (SM) locations. A list of these locations may be found at:

http://pages.samsung.com/us/recyclingdirect/usactivities_environment_samsungrecyclingdirect_locations.jsp

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Samsung-branded devices and batteries will be accepted at these locations for no fee.

Consumers may also recycle their used mobile device or batteries at many retail or carrier-provided locations where mobile devices and batteries are sold. Additional information regarding specific locations may be found at:

http://www.epa.gov/epawaste/partnerships/plugin/cellphone/index.htm or at http://www.call2recycle.org/.

Mail It In

The Samsung Mobile Take-Back Program will provide Samsung customers with a free recycling mailing label. Just go to http://fun.samsungmobileusa.com/recycling/index.jsp.

Dispose of unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect
Or call, (877) 278-0799.

Follow local regulations regarding disposal of mobile devices and batteries

Dispose of your mobile device and batteries in accordance with local regulations. In some areas, the disposal of these items in household or business trash may be prohibited. Help us protect the environment - recycle!

Warning! Never dispose of batteries in a fire because they may explode.

UL Certified Travel Charger

The Travel Charger for this phone has met applicable UL safety requirements. Please adhere to the following safety instructions per UL guidelines:

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN NORTH AMERICA, USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

THIS POWER UNIT IS INTENDED TO BE CORRECTLY ORIENTED IN A VERTICAL OR HORIZONTAL OR FLOOR MOUNT POSITION.

Display / Touch-Screen

Please note the following information when using your mobile device:

WARNING REGARDING DISPLAY

The display on your mobile device is made of glass or acrylic and could break if your mobile device is dropped or if it receives significant impact. Do not use if screen is broken or cracked as this could cause injury to you.

WARRANTY DISCLAIMER: PROPER USE OF A TOUCH-SCREEN MOBILE DEVICE

If your mobile device has a touch-screen display, please note that a touch-screen responds best to a light touch from the pad of your finger or a non-metallic stylus. Using excessive force or a metallic object when pressing on the touch-screen may damage the tempered glass surface and void the warranty. For more information, please refer to the "Standard Limited Warranty".

GPS

Certain Samsung mobile devices can use a Global Positioning System (GPS) signal for location-based applications. A GPS uses satellites controlled by the U.S. Government that are subject to changes implemented in accordance with the Department of Defense policy and the 2008 Federal Radio navigation Plan (FRP). Changes may affect the performance of location-based technology on your mobile device.

Even with GPS, when you make an emergency call:

- Always tell the emergency responder your location to the best of your ability; and

- Remain on the mobile device for as long as the emergency responder instructs you.

Navigation

Maps, directions, and other navigation-data, including data relating to your current location, may contain inaccurate or incomplete data, and circumstances can and do change over time. In some areas, complete information may not be available. **Therefore, you should always visually confirm that the navigational instructions are consistent with what you see before following them. All users should pay attention to road conditions, closures, traffic, and all other factors that may impact safe driving or walking. Always obey posted road signs.**

Emergency Calls

This mobile device, like any wireless mobile device, operates using radio signals, wireless and landline networks, as well as user-programmed functions, which cannot guarantee connection in all conditions, areas, or circumstances.

Therefore, you should never rely solely on any wireless mobile device for essential communications (medical emergencies, for example). Before traveling in remote or underdeveloped areas, plan an alternate method of contacting emergency services personnel. Remember, to make or receive any calls, the mobile device must be switched on and in a service area with adequate signal strength.

Emergency calls may not be possible on all wireless mobile device networks or when certain network services and/or mobile device features are in use. Check with local service providers.

To make an emergency call:

1. If the device is not on, switch it on.
2. From the Home screen, touch **Phone**.
3. Dial the emergency number (for example, 911 or other official emergency number). Emergency numbers vary by location.
4. Touch to place the call.

Care and Maintenance

Your mobile device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years:

Keep your Samsung Mobile Device away from:

Liquids of any kind

Keep the mobile device dry. Precipitation, humidity, and liquids contain minerals that will corrode electronic circuits. If the mobile device does get wet, do not accelerate drying with the use of an oven, microwave, or dryer, because this may damage the mobile device and could cause a fire or explosion.

Do not use the mobile device with a wet hand. Doing so may cause an electric shock to you or damage to the mobile device.

Extreme heat or cold

Avoid temperatures below 0°C / 32°F or above 45°C / 113°F.

Microwaves

Do not try to dry your mobile device in a microwave oven. Doing so may cause a fire or explosion.

Dust and dirt

Do not expose your mobile device to dust, dirt, or sand.

Cleaning solutions

Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the mobile device. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution. If the mobile device has a retractable camera lens, do not use soap and water to clean the lens. Use a blower or brush or lens cleaning paper dampened in a lens cleaning solution.

Shock or vibration

Do not drop, knock, or shake the mobile device. Rough handling can break internal circuit boards.

Paint

Do not paint the mobile device. Paint can clog the device's moving parts or ventilation openings and prevent proper operation.

Responsible Listening

Caution! Avoid potential hearing loss.

Damage to hearing occurs when a person is exposed to loud sounds over time. The risk of hearing loss increases as sound is played louder and for longer durations. Prolonged exposure to loud sounds (including music) is the most common cause of preventable hearing loss. Some scientific research suggests that using portable audio devices, such as

portable music players and cell phones, at high volume settings for long durations may lead to permanent noise-induced hearing loss.

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

You should follow some common sense recommendations when using any portable audio device:

- Always turn the volume down before plugging the earphones into an audio source.
- Set the volume in a quiet environment and select the lowest volume at which you can hear adequately.
- Be aware that you can adapt to higher volume settings over time, not realizing that the higher volume may be harmful to your hearing.
- When using headphones, turn the volume down if you cannot hear the people speaking near you or if the person sitting next to you can hear what you are listening to.
- Do not turn the volume up to block out noisy surroundings. If you choose to listen to your portable device in a noisy environment, use noise-cancelling headphones to block out background environmental noise. By blocking background environment noise, noise cancelling headphones should allow you to hear the music at lower volumes than when using earbuds.
- Limit the amount of time you listen. As the volume increases, less time is required before you hearing could be affected.
- Avoid using headphones after exposure to extremely loud noises, such as rock concerts, that might cause temporary hearing loss. Temporary hearing loss might cause unsafe volumes to sound normal.

- Do not listen at any volume that causes you discomfort. If you experience ringing in your ears, hear muffled speech, or experience any temporary hearing difficulty after listening to your portable audio device, discontinue use and consult your doctor.

You can obtain additional information on this subject from the following sources:

American Academy of Audiology

11730 Plaza American Drive, Suite 300
Reston, VA 20190

Voice: (800) 222-2336
Email: info@audiology.org

Internet:
http://www.audiology.org/Pages/default.aspx

National Institute on Deafness and Other Communication Disorders

National Institutes of Health
31 Center Drive, MSC 2320
Bethesda, MD 20892-2320

Email: nidcdinfo@nih.gov

Internet:
http://www.nidcd.nih.gov/

National Institute for Occupational Safety and Health (NIOSH)

395 E Street, S.W., Suite 9200
Patriots Plaza Building
Washington, DC 20201

Voice: 1-800-35-NIOSH
(1-800-356-4674)
1-800-CDC-INFO (1-800-232-4636)
Outside the U.S. 513-533-8328

Email: cdcinfo@cdc.gov

Internet:
http://www.cdc.gov/niosh/topics/noise/default.html

1-888-232-6348 TTY

Operating Environment

Remember to follow any special regulations in force in any area, and always switch your mobile device off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the mobile device or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

Using Your Mobile Device Near Other Electronic Devices

Most modern electronic equipment is shielded from Radio Frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless mobile device. Consult the manufacturer to discuss alternatives.

Implantable Medical Devices

A minimum separation of six (6) inches should be maintained between a handheld wireless mobile device and an implantable medical device, such as a pacemaker or implantable cardioverter defibrillator, to avoid potential interference with the device.

Persons who have such devices:

- Should ALWAYS keep the mobile device more than six (6) inches from their implantable medical device when the mobile device is turned ON;
- Should not carry the mobile device in a breast pocket;
- Should use the ear opposite the implantable medical device to minimize the potential for interference;
- Should turn the mobile device OFF immediately if there is any reason to suspect that interference is taking place;
- Should read and follow the directions from the manufacturer of your implantable medical device. If you have any questions about using your wireless mobile device with an implantable medical device, consult your health care provider.

For more information see: http://www.fcc.gov/oet/rfsafety/rf-faqs.html#.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your mobile device off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle before using your mobile device in a motor vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your mobile device off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your mobile device off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised to switch the mobile device off while at a refueling point (service station).

Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants, or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often, but not always, clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine. Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association.

When your Device is Wet

Do not turn on your device if it is wet. If your device is already on, turn it off and remove the battery immediately (if the device will not turn off or you cannot remove the battery, leave it as-is). Then, dry the device with a towel and take it to a service center.

FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

The U.S. Federal Communications Commission (FCC) has established requirements for digital wireless mobile devices to be compatible with hearing aids and other assistive hearing devices.

When individuals employing some assistive hearing devices (hearing aids and cochlear implants) use wireless mobile devices, they may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and mobile devices also vary in the amount of interference they generate.

The wireless telephone industry has developed a rating system for wireless mobile devices to assist hearing device users find mobile devices that may be compatible with their hearing devices. Not all mobile devices have been rated. Mobile devices that are rated have the rating on their box or a label located on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Wireless mobile devices rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. M4 is the better/higher of the two ratings. M-ratings refer to enabling acoustic coupling with hearing aids that do not operate in telecoil mode.

T-Ratings: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

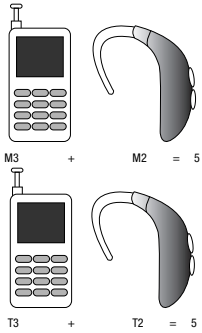
Hearing devices may also be rated. Your hearing aid manufacturer or hearing health professional may help you find this rating. Higher ratings mean that the hearing device is relatively immune to interference noise.

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a

hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

Under the standard, this should provide the hearing aid user with normal use while using the hearing aid with the particular wireless mobile device. A sum of 6 or more would indicate excellent performance.

However, these are not guarantees that all users will be satisfied. T ratings work similarly.



The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

HAC for Newer Technologies

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids.

It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

FCC Notice and Cautions

FCC Notice

The mobile device may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the mobile device if such interference cannot be eliminated.

Cautions

Any changes or modifications to your mobile device not expressly approved by Samsung could void your warranty for this equipment and void your authority to operate this equipment. Only use approved batteries, antennas, and chargers. The use of any unauthorized accessories may be dangerous and void the mobile device warranty if said accessories cause damage or a defect to the mobile device.

Although your mobile device is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending, or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up in the headset and cause a small quick static electrical shock. To minimize the risk of electrostatic discharge from the headset avoid using the headset in extremely dry environments or touch a grounded unpainted metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile device, its parts, or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including installed or portable wireless equipment near or in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.

- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.
- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights while watching videos or playing games for extended periods. If you feel any discomfort, stop using the device immediately.
- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

Section 10: Warranty Information

Standard Limited Warranty

What is covered and for how long?

SAMSUNG TELECOMMUNICATIONS AMERICA, LLC ("SAMSUNG") warrants that SAMSUNG's handsets and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase by the first consumer purchaser and continuing for the following specified period of time after that date:

Device	1 Year
Battery(ies)*	1 Year
Case/Pouch/Holster*	90 Days
Other Device Accessories*	1 Year

*If applicable.

What is not covered?

This Limited Warranty is conditioned upon proper use of the Product.

This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abnormal use, abnormal conditions, improper storage, exposure to liquid, moisture, dampness, sand or dirt, neglect, or unusual physical, electrical or electromechanical stress; (b) scratches, dents and cosmetic damage, unless caused by SAMSUNG; (c) defects or damage resulting from excessive force or use of a metallic object when pressing on a touch screen; (d) equipment that has the serial number or the enhancement data code removed, defaced, damaged, altered or made illegible; (e) ordinary wear and tear; (f) defects or damage resulting from the use of Product in conjunction or connection with accessories, products, or ancillary/peripheral equipment not furnished or approved by SAMSUNG; (g) defects or damage resulting from improper testing, operation, maintenance, installation, service, or adjustment not furnished or approved by SAMSUNG; (h) defects or damage resulting from external causes such as collision with an object, fire, flooding, dirt, windstorm, lightning, earthquake, exposure to weather conditions, theft, blown fuse, or improper use of any electrical source; (i) defects or damage resulting from cellular signal reception

or transmission, or viruses or other software problems introduced into the Product; or (j) Product used or purchased outside the United States. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery; (ii) any of the seals on the battery are broken or show evidence of tampering; or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's obligations?

During the applicable warranty period, provided the Product is returned in accordance with the terms of this Limited Warranty, SAMSUNG will repair or replace the Product, at SAMSUNG's sole option, without charge. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product, or may replace the Product with a rebuilt, reconditioned or new Product.

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

What must you do to obtain warranty service?

To obtain service under this Limited Warranty, you must return the Product to an authorized phone service facility in an adequate container for shipping, accompanied by the sales receipt or comparable proof of sale showing the original date of purchase, the serial number of the Product and the seller's name and address.

To obtain assistance on where to deliver the Product, please call SAMSUNG Customer Care at 1-888-987-4357. If SAMSUNG determines that any Product is not covered by this Limited Warranty, you must pay all parts, shipping, and labor charges for the repair or return of such Product.

You should keep a separate backup copy of any contents of the Product before delivering the Product to SAMSUNG for warranty service, as some or all of the contents may be deleted or reformatted during the course of warranty service.

What are the limits on SAMSUNG's liability?

THIS LIMITED WARRANTY SETS OUT THE FULL EXTENT OF SAMSUNG'S RESPONSIBILITIES, AND THE EXCLUSIVE REMEDY REGARDING THE PRODUCTS.

ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. IN NO EVENT SHALL SAMSUNG BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT OR FOR, WITHOUT LIMITATION, COMMERCIAL LOSS OF ANY SORT; LOSS OF USE, TIME, DATA, REPUTATION, OPPORTUNITY, GOODWILL, PROFITS OR SAVINGS; INCONVENIENCE; INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES; OR DAMAGES ARISING FROM THE USE OR INABILITY TO USE THE PRODUCT. SOME STATES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE DISCLAIMER OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND DISCLAIMERS MAY NOT APPLY TO YOU.

SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT USED IN CONJUNCTION WITH THE PRODUCT, OR THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE. RESPONSIBILITY FOR THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT RESTS SOLELY WITH THE USER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT.

Nothing in the Product instructions or information shall be construed to create an express warranty of any kind with respect to the Products. No agent, employee, dealer, representative or reseller is authorized to modify or extend this Limited Warranty or to make binding representations or claims, whether in advertising, presentations or otherwise, on behalf of SAMSUNG regarding the Products or this Limited Warranty.

This Limited Warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

What is the procedure for resolving disputes?

ALL DISPUTES WITH SAMSUNG ARISING IN ANY WAY FROM THIS LIMITED WARRANTY OR THE SALE, CONDITION OR PERFORMANCE OF THE PRODUCTS SHALL BE RESOLVED EXCLUSIVELY THROUGH FINAL AND BINDING ARBITRATION, AND NOT BY A COURT OR JURY.

Any such dispute shall not be combined or consolidated with a dispute involving any other person's or entity's Product or claim, and specifically, without limitation of the foregoing, shall not under any circumstances proceed as part of a class action. The arbitration shall be conducted before a single arbitrator, whose award may not exceed, in form or amount, the relief allowed by the applicable law. The arbitration shall be conducted according to the American Arbitration Association (AAA) Commercial Arbitration Rules applicable to consumer disputes. This arbitration provision is entered pursuant to the Federal Arbitration Act. The laws of the State of Texas, without reference to its choice of laws principles, shall govern the interpretation of the Limited Warranty and all disputes that are subject to this arbitration provision. The arbitrator shall decide all issues of interpretation and application of this arbitration provision and the Limited Warranty.

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are $5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or $50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees. Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed $5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction.

This arbitration provision also applies to claims against SAMSUNG's employees, representatives and affiliates if any such claim arises from the Product's sale, condition or performance.

You may opt out of this dispute resolution procedure by providing notice to SAMSUNG no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product. To opt out, you must send notice by e-mail to optout@sta.samsung.com, with the subject line: "Arbitration Opt Out." You must include in the opt out e-mail (a) your name and address; (b) the date on which the Product was purchased; (c) the Product model name or model number; and (d) the IMEI or MEID or Serial Number, as applicable, if you have it (the IMEI or MEID or Serial Number can be found (i) on the Product box; (ii) on the Product information screen, which can be found under "Settings;" (iii) on a label on the back of the Product beneath the battery, if the battery is removable; and (iv) on the outside of the Product if the battery is not removable). Alternatively, you may opt out by calling 1-888-987-4357 no later than 30 calendar days from the date of the first consumer purchaser's purchase of the Product and providing the same information. These are the only two forms of notice that will be effective to opt out of this dispute resolution procedure. Opting out of this dispute resolution procedure will not affect the coverage of the Limited Warranty in any way, and you will continue to enjoy the benefits of the Limited Warranty.

Severability

If any portion of this Limited Warranty is held to be illegal or unenforceable, such partial illegality or unenforceability shall not affect the enforceability of the remainder of the Limited Warranty.

Precautions for Transfer and Disposal

If data stored on this device is deleted or reformatted using the standard methods, the data only appears to be removed on a superficial level, and it may be possible for someone to retrieve and reuse the data by means of special software.

To avoid unintended information leaks and other problems of this sort, it is recommended that the device be returned to Samsung's Customer Care Center for an Extended File System (EFS) Clear which will eliminate all user memory and return all settings to default settings. Please contact the **Samsung Customer Care Center** for details.

Important! Please provide warranty information (proof of purchase) to Samsung's Customer Care Center in order to provide this service at no charge. If the warranty has expired on the device, charges may apply.

Samsung Telecommunications America, LLC
1301 E. Lookout Drive
Richardson, Texas 75082
Phone: 1-800-SAMSUNG
Phone: 1-888-987-HELP (4357)

No reproduction in whole or in part allowed without prior written approval. Specifications and availability subject to change without notice. [111611]

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